7.2 Power Supply

All power supplies described below are a black box for Service. When defective, a new board must be ordered and the defective one must be returned, unless the main fuse of the board is broken. Always replace a defective fuse with one with the correct specifications! This part is available in the regular market.
Consult the Service Spare Parts website for the order codes of the boards.

7.2.1 Specifications

Most sets in the TV543 platform use the Integrated Power Board (IPB) - incl. inverter. The 52" sets in this chassis have a conventional PSU - with separate inverter.

In this Service Manual, no detailed information is available because of design protection issues.

7.2.2 Diversity

Below find an overview of the different PSUs that are used:

Table 7-1 Supply diversity

Supplier	PSU	Model	Input Voltage Range
LGIT	PLHL-T826B	32PFL7404H/12	High Mains (198 to 265 V_{AC})
Delta	DPS-298CP-4 A	42PFL7404H/12	High Mains (198 to 265 V_{AC})
Delta	DPS-298CP-2 A	47PFL7404H/12	High Mains (198 to 265 V_{AC})
Delta	DPS-411AP-3 A	52PFL7404H/12	High Mains (198 to 265 V_{AC})
LGIT	PLHL-T826B	32PFL8404H/12	High Mains (198 to 265 V_{AC})
Delta	DPS-298CP A	37PFL8404H/12	High Mains (198 to 265 V_{AC})
Delta	DPS-298CP-4 A	42PFL8404H/12	High Mains (198 to 265 V_{AC})
Delta	DPS-298CP-2 A	47PFL8404H/12	High Mains (198 to 265 V_{AC})

7.2.3 Application

An application diagram can be found below:

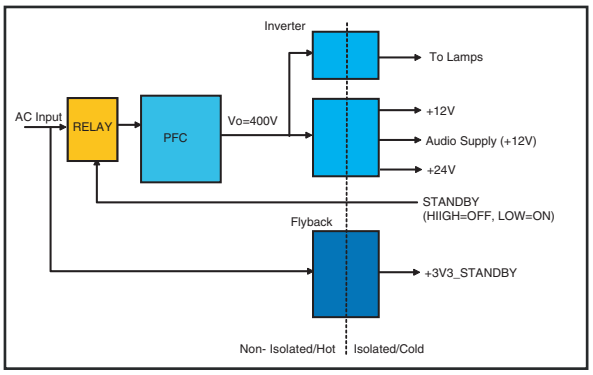

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Figure 7-3 Application Integrated Power Board

7.2.4 Power Supply Timing

The STANDBY signal controls the on-mode voltages +12V, $+V_{snd}$ and +24V. During chassis cold start from AC mains, +12V can be expected to be stable within 1.0 seconds, while for a warm start, i.e. wake up from stand-by power state, this timing becomes 0.5 seconds maximum. During AC switch off, stand-by power +3V3-STANDBY decay is at least 20 ms but not more than 5.0 seconds compared to +12V. Refer to Figure 7-4:

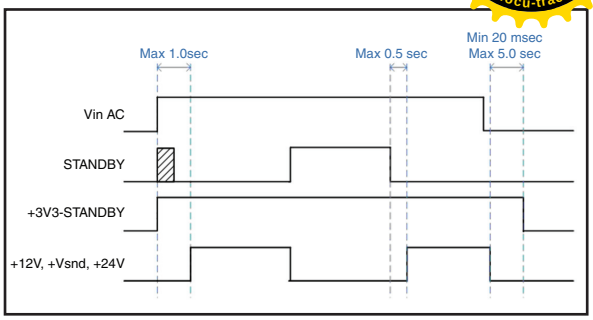

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Figure 7-4 PSU Timing Diagram

7.2.5 Power Supply Protection

Power supply protection is implemented via the stand-by controller of the PNX8543 via the following signals:

- POWER-OK: signal from PSU to indicate if the supply output from the IPB is normal
- DETECT1: signal to indicate if the +5V, +3V3 and +1V2 voltages on the chassis are present
- DETECT2: signal to indicate if the +12V voltage on the chassis is present.

7.3 DC-DC Converter

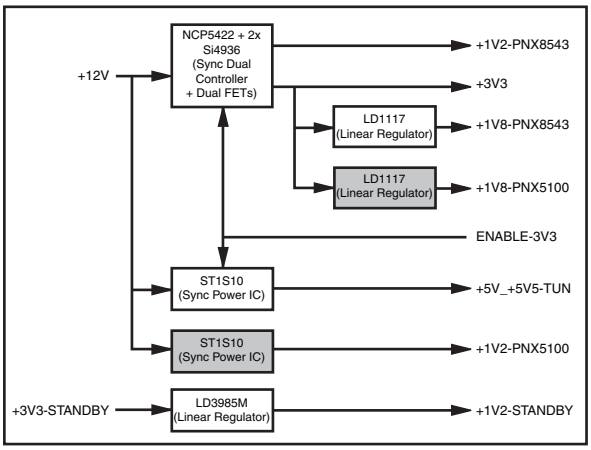
Input power is obtained from the IPB module via the following voltages:

- +3V3-STANDBY (stand-by-mode only)
- +12V (on-mode)
- $+V_{snd}$ (audio power) (on-mode)
- +24V (bolt-on power) (on-mode).

Control is achieved by the PNX8543 controller via the STANDBY signal.

Audio power is specifically for audio supply usage only and does not go through any DC conversion.

Below find a block diagram of the on-board DC-DC converters.



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090227

Figure 7-5 DC-DC converters

Front-End

The Front-End consist of the following key components:

- Tuner HD1816AF
- IF demodulator DRX3926K
- AGC amplifier UPC3221GV
- SAW filter 36M125.

Below find a block diagram of the front-end application.

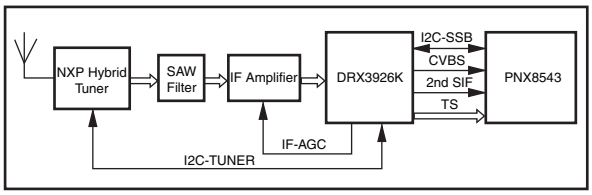

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Figure 7-6 Front-End block diagram

The DRX3926K is a multi-standard demodulator supporting DVB-C, DVB-T and analogue standards. The demodulated digital stream is fed into the parallel transport stream data ports of the PNX8543. The demodulated analogue signal in the form of CVBS is connected to the analogue video CVBS/Y input channel, while the SIF is connected via the SSIF2 positive input port.

7.5 HDMI

In this platform, the TDA9996 HDMI multiplexer is implemented. The EDID contents are no longer stored in a separate EEPROM, but directly in the multiplexer. Each input has its own physical sub address: the first 253 bytes are common, where the last 3 bytes define the specific input. The EDID contents are, at +5V power-up, downloaded to RAM. The following figures show the HDMI input configuration and EDID control.

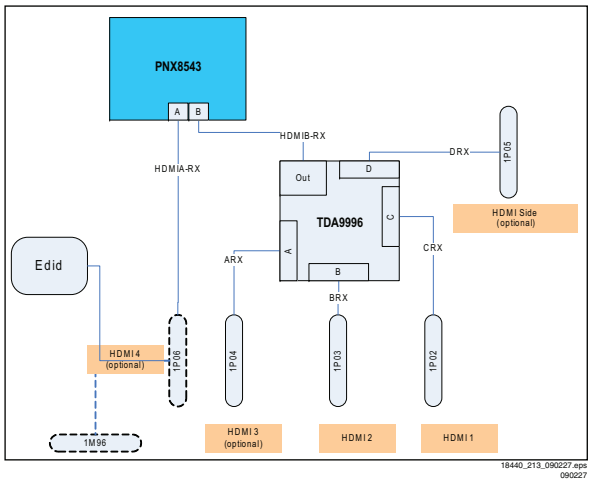

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Figure 7-7 HDMI input configuration

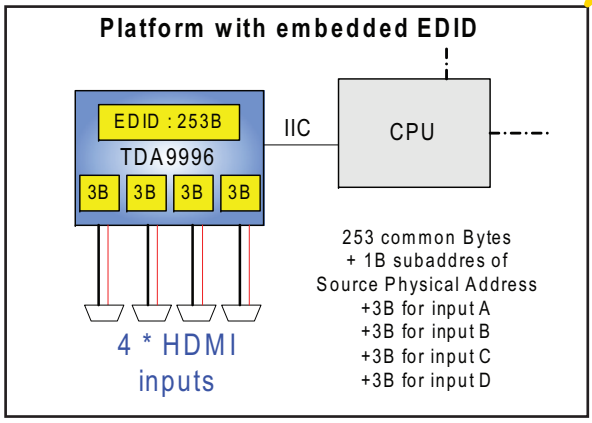

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Figure 7-8 EDID control (embedded EDID)

Some delta's w.r.t. TDA9996 compared to earlier chassis/ platforms are:

- +5V detection mechanism
- stable clock detection mechanism
- integrated EDID
- RT control
- HPD control
- TMDS output control
- CEC control
- new hot-plug control for PNX8543 for 5th HDMI input
- new EDID structure: EDID stored in TDA9996, therefore there are no EDID pins on the SSB. Only in the event of a 5th HDMI input, an additional EEPROM is foreseen, as was implemented in previous platforms.

Some delta's with respect to PNX8543 compared to earlier chassis/platforms are:

- 2 HDMI inputs (A & B)
- HDMI deep colour RGB/YCbCr 4:4:1 10/12 bit detection.

After replacement of the TDA9996 HDMI multiplexer, the default I^2C address should be reprogrammed from C0 to CE, and the HDMI EDIDs should be reprogrammed as well. Both actions should be executed via ComPair.

.6 Video and Audio Processing - PNX8543

The PNX8543 is the main audio and video processor (or System-on-Chip) for this platform. It is a member of the PNX85xx SoC family (described in earlier chassis) with the addition of the MPEG4 functionality; the separate STi710x MPEG4 decoder is no longer implemented in this platform.

The PNX8543 handles the digital and analogue a[illegible] video decoding and processing. The processor is a [illegible] general purpose CPU and a 8051-based TV controller for power management and user event handling.

- For a functional diagram of the PNX8543, refer to Figure 7-9.

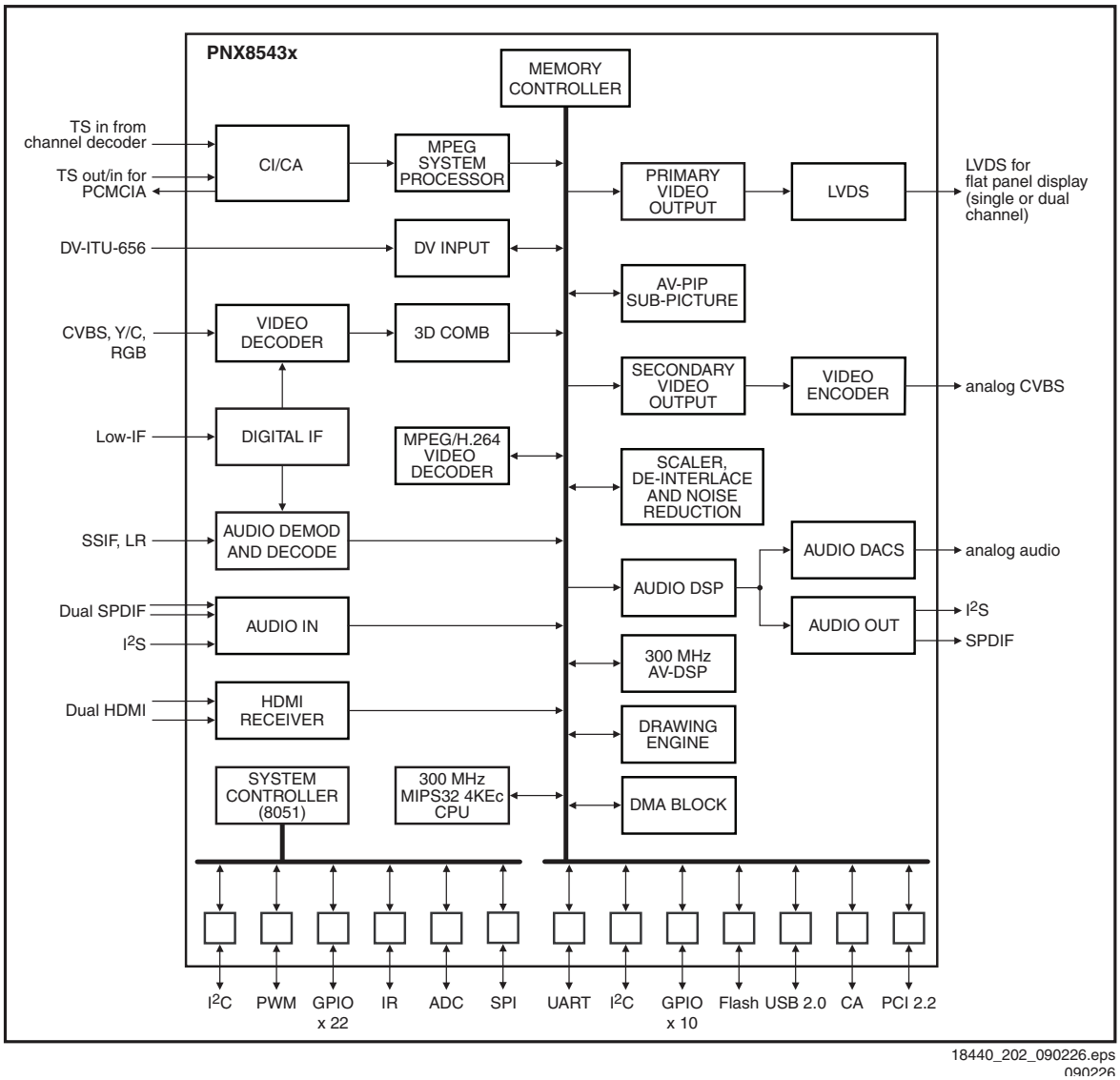

Figure 7-9 PNX8543 functional diagram

Subsystem

Refer to Figure 7-10 for the main video interfaces for the PNX8543 and the video signal flow between blocks and memory.

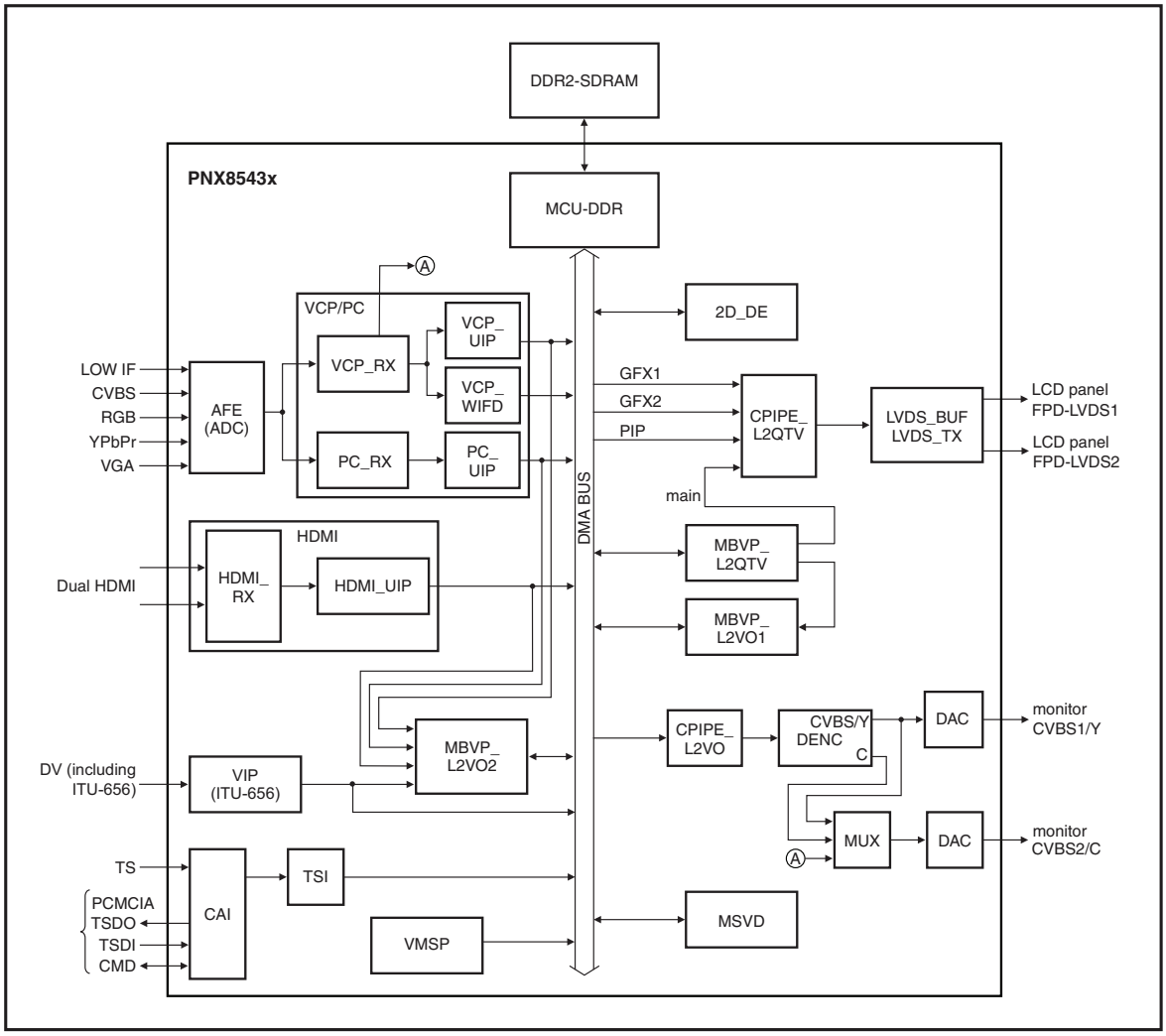

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Figure 7-10 PNX8543 video flow diagram

The Video Subsystem consist of the following blocks:

- Analogue Front-End (AFE) block
- Video and PC Capture (VPC/PC) pipe
- HDMI Receiver interface
- Memory-Based Video Processor MBVP)
- Video Composition Pipe (CPIPE)
- Memory Based Video Processor (MBVP) VO-1
- Memory Based Video Processor (MBVP) VO-2
- Video Composition Pipe (CPIPE)
- Dual Flat Panel Display-LVDS (FPD-LVDS)
- Digital Encoder (DENC)
- Digital Video VIP
- 2D graphics block.

7.3.2 Audio Subsystem

Refer to Figure 7-11 for the main audio interfaces for the PNX8543 and the audio signal flow between blocks and memory.

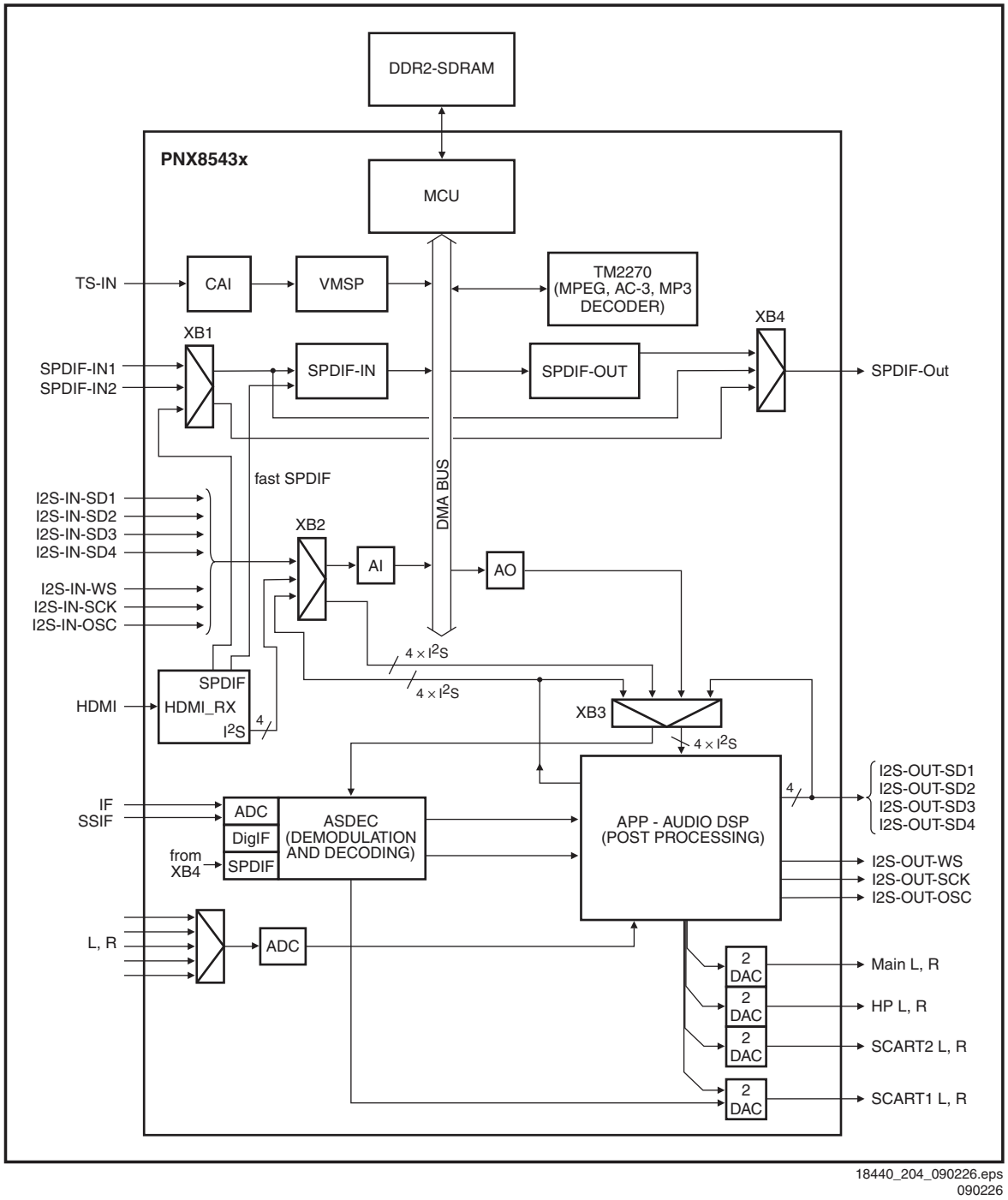

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Figure 7-11 PNX8543 audio flow diagram

The Audio Subsystem consist of the following blocks:

- Analogue Audio Front End (AAFE) used to capture Baseband Audio Inputs and to sample Secondary Sound IF (SSIF) directly or via Low-IF input
- HDMI Receiver interface block
- SPDIF input block
- Audio Input (AI) block
- Audio Output (AO) block
- Demodulation & Decoding (ASDEC) DSP for decoding all analogue terrestrial TV sound standards
- Audio Post-Processing (APP) block
- Digital Audio decoder.

Refer to Figure 7-12 for the connectivity and compute subsystem.

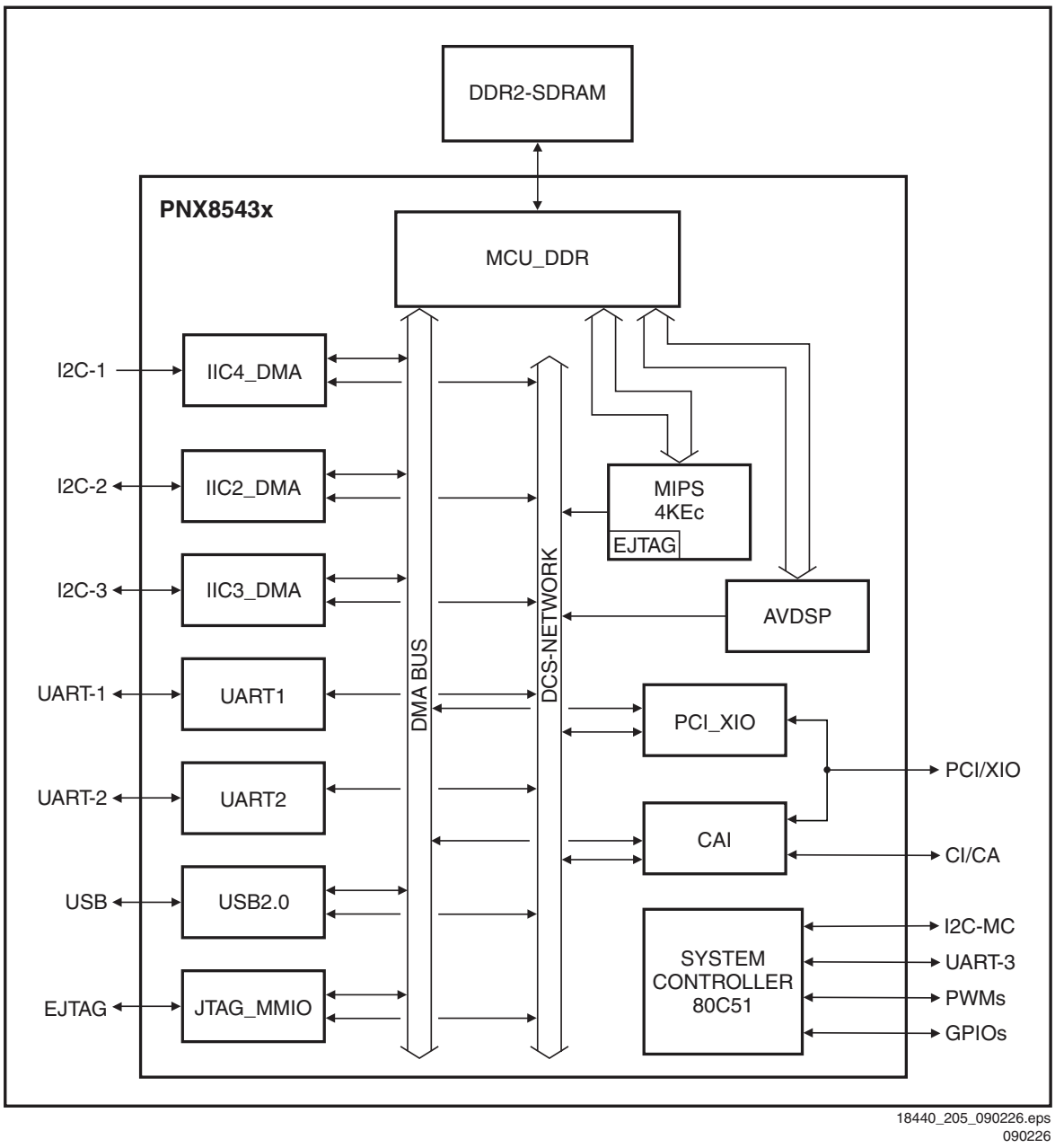

Figure 7-12 PNX8543 connectivity and compute subsystem

The Connectivity Subsystem consists of:
- PCI/XIO interface
- USB2.0 interface
- Three 2-wire UARTs
- Four Master/Slave I^2C interfaces
- Common Interface/Conditional Access Interface.

The Computing Subsystem consists of:
- 32-bit MIPS RISC core
- Enhanced JTAG (EJTAG) block inside the MIPS
- JTAG_MMIO blocks
- TV controller
- Audio/Video DSP (AV_DSP)
- Memory Control Unit (MCU).

7.6.4 Service Notice - FLASH RAM / PNX8543 exchange

The FLASH RAM (item 7M00) and/or PNX8543 (item 7600) can only be exchanged by an authorised central workshop with dedicated programming tools. Due to the presence of (CI+) keys in the components, **unauthorised exchange of these components will always result in a defective board**.

7.7 Common Interface CI+

Together with this platform, an extension to the Common Interface (CI) Conditional Access system is added, called CI+.

CI+ or Common Interface Plus is a specification that extends the Common Interface (DVB-CI) as described in the digital broadcasting standard DVB.

The weakness of the conventional CI module used in a Conditional Access system was the absence of a Copy Protection mechanism, as decrypted content could be sent over the PCMCIA interface unscrambled. With the CI+ extension, a form of copy protection is established between the Conditional Access Module (CAM) and the Integrated Digital Television (IDTV). The security mechanisms in CI+ are derived/copied from POD (with the exception of Out Of Band (OOB) used in US CA systems). For more information about conventional CA systems using a CI module, refer to the BJ3.0E L/PA or BL2.xU Service Manual.

The CI+ standard is downwards compatible with the existing CI standard.

The following figure shows the implementation of the CI+ Conditional Access system in the TV543 platform.

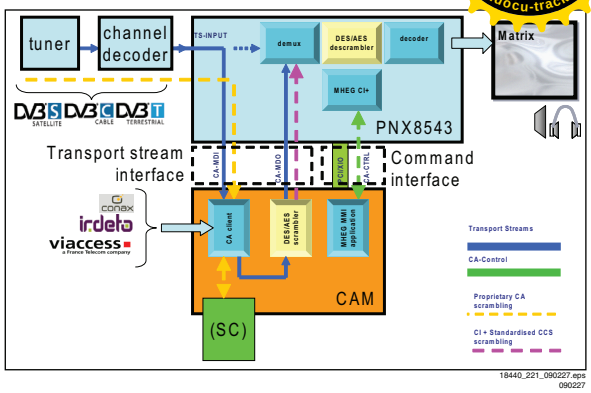

Figure 7-13 CI+ Conditional Access implementation

7.8 Ambi Light

The Ambi Light architecture in this platform has been entirely renewed. The characteristics are:

- Additional DC/DC board generating 12/16/24 V (optional)
- ARM processor (on DC/DC panel or AL board)
- Low-power LEDs
- SPI interface from ARM to LED drivers
- I^2C upgradeable via USB
- Each AL module has a temperature sensor.

The use of the DC/DC board is optional. In case no DC/DC board is implemented, the ARM processor is located on one of the AL boards.

Refer to Figure 7-14 for the Ambi Light architecture.

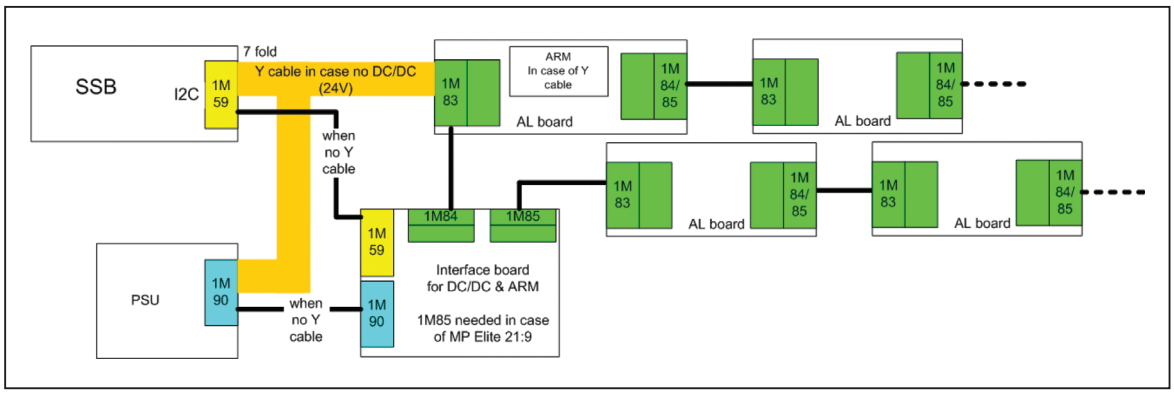

Figure 7-14 Interface between Ambi Light and SSB

7.8.1 ARM controller

Refer to Figure 7-15 below for signal interfacing to and from the ARM controller. The ARM controller is located on the DC/DC board (item no. 7302) or AL panel (item no. 7102).

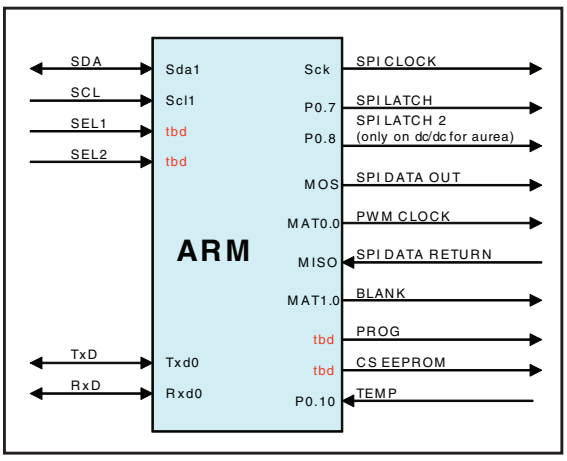

Figure 7-15 ARM controller interface

Data transfer between ARM processor and LED drivers is executed by a Serial Peripheral Interface (SPI) bus interface.

The SPI bus is a synchronous serial data link standard that operates in full duplex mode.

For debugging purposes, the working principle is given below:

- At startup the controller will read-out matrix data from the EEPROM devices (via SPI DATA RETURN)
- Before operation, the driver current is set via SPI, with driver in DC mode
- During normal operation the controller receives RGB-, configuration-, operation mode- and topology data via I^2C
- The controller converts the I^2C RGB data via the matrixes to SPI LED data
- Via data return the controller receives error data (if applicable).

Also PWM clock and BLANK signals are generated by the controller. The controller can be reprogrammed via I^2C (via USB). The controller can receive matrix values via I^2C, which will be stored in the EEPROM of each AL module via the SPI bus. The temperature sensor in each AL module controls the TEMP line; in case of a too high temperature the controller will reduce the overall brightness.

7.8.2 LED driver communication (via SPI bus)

Refer to Figure 7-16 below for signal interfacing between the ARM controller and the LED drivers on the AL boards, and the LED drivers and the EEPROMs on the AL boards.

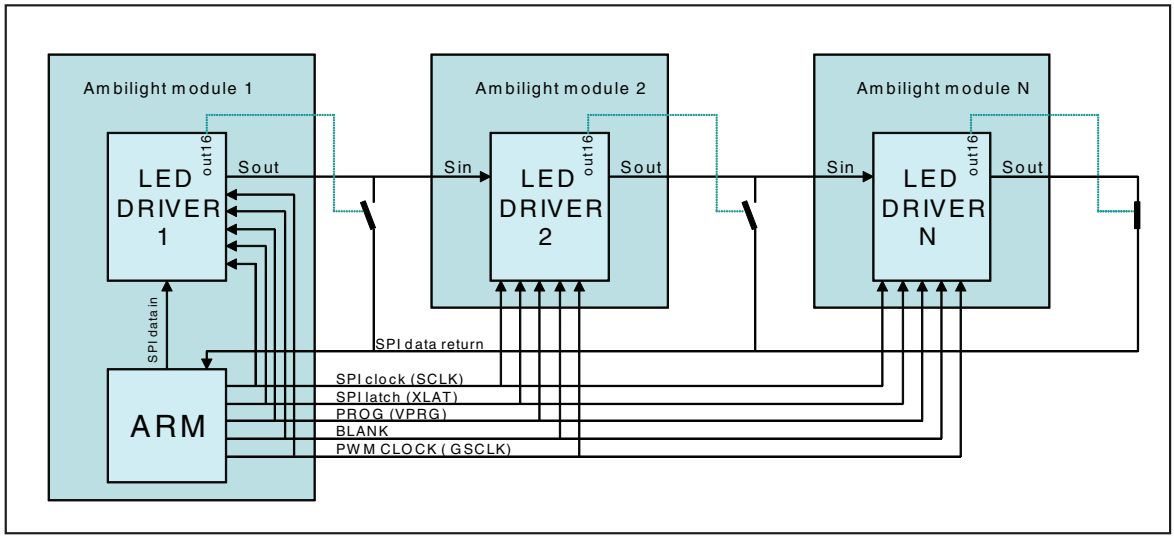

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Figure 7-16 SPI communication between ARM controller and LED drivers

The ARM controller communicates with the LED drivers (on each AL module) via an SPI bus. For debugging purposes, the working principle is given below:

- Data from the ARM controller is linked through the drivers, which are connected in cascade
- SPI CLK, SPI LATCH, PROG, BLANK and PWM CLOCK are going directly from the controller to each driver
- SPI DATA RETURN is linked from the last driver to the controller: controller decides which driver returns data.

Each AL board is equipped with a temperature sensor. If one of the sensors detects a temperature over the threshold, the TEMP line is pulled LOW which results in brightness reduction.

7.8.3 Temperature Control

Refer to Figure 7-17 for signal interfacing between the ARM controller and the temperature sensor on the AL boards.

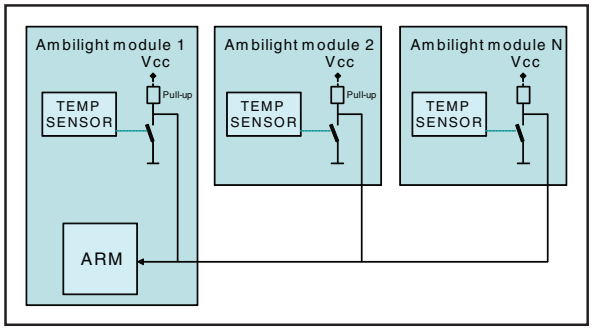

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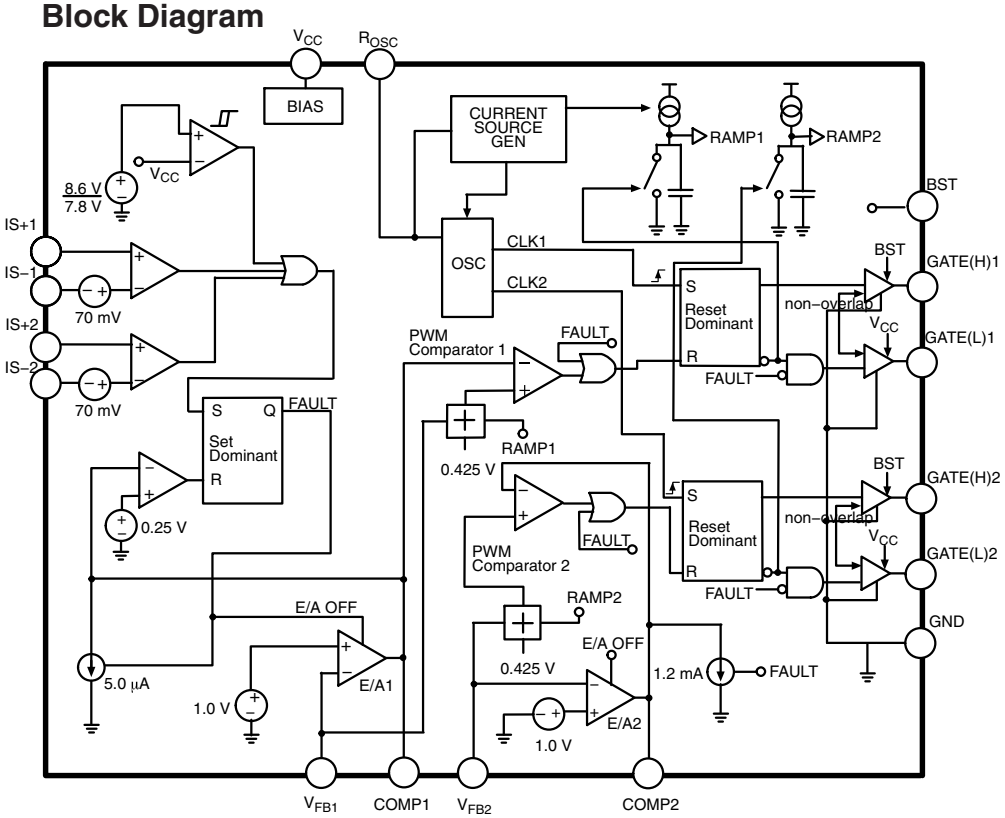
Figure 7-17 Communication between ARM controller and temperature sensor

8. IC Data Sheets

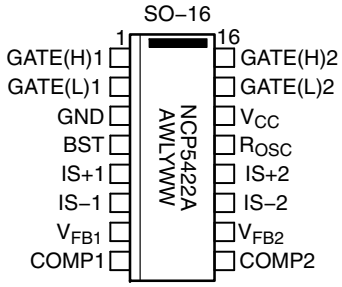
This chapter shows the internal block diagrams and pin configurations of ICs that are drawn as “black boxes” in the electrical diagrams (with the exception of “memory” and “logic” ICs).

8.1 Diagram SSB: DC/DC +3V3 +1V2 B01A, NCP5422AD (IC 7103)

Block Diagram



Pin Configuration



A = Assembly Location
WL = Wafer Lot
Y = Year
WW = Work Week

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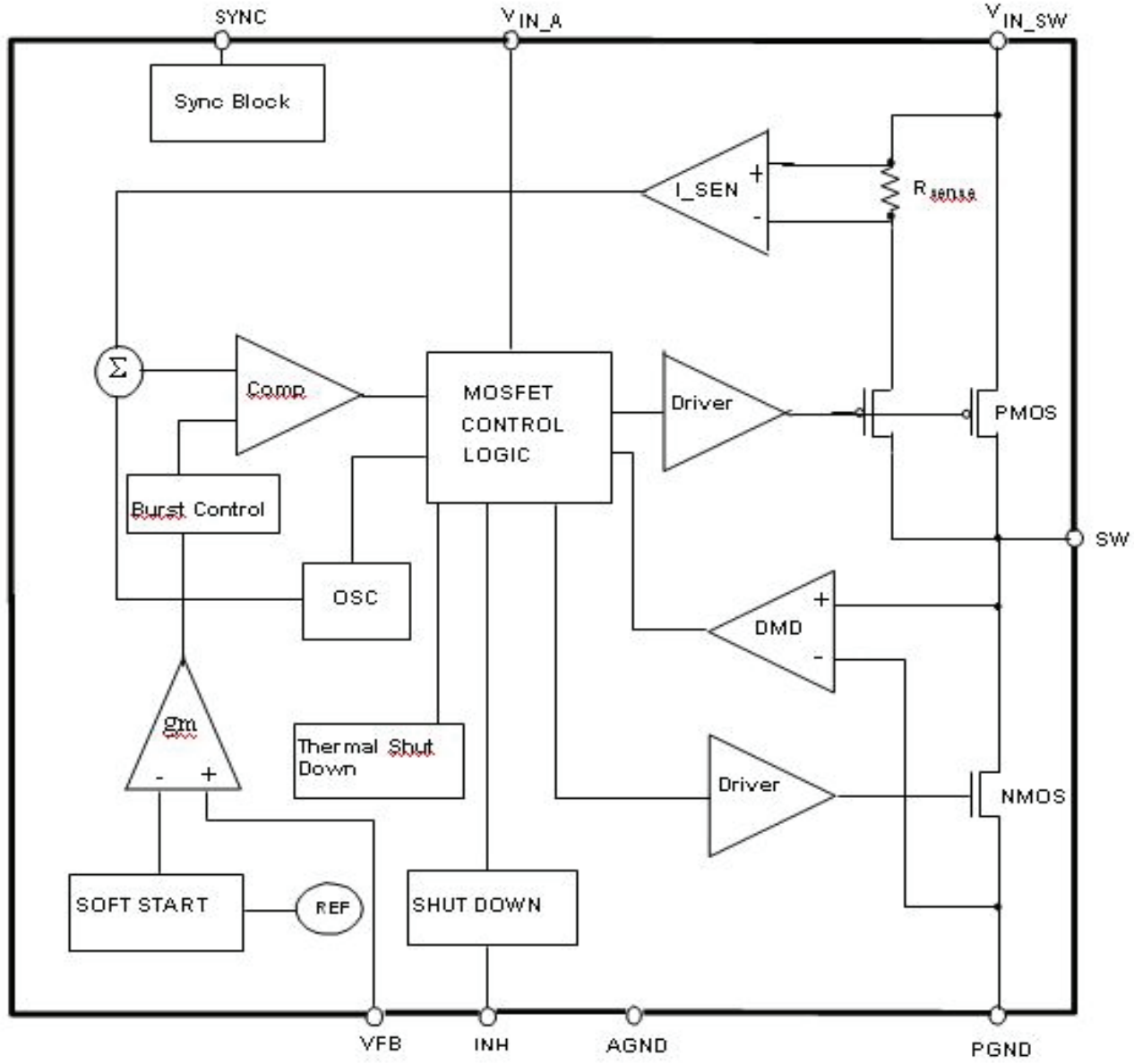
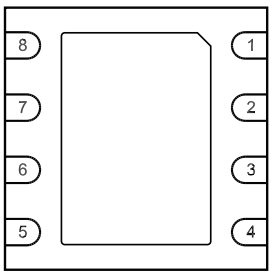
Figure 8-1 Internal block diagram and pin configuration

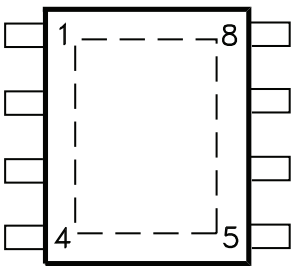
Block Diagram



Pin Configuration



DFN8 (4x4)



PowerSO-8

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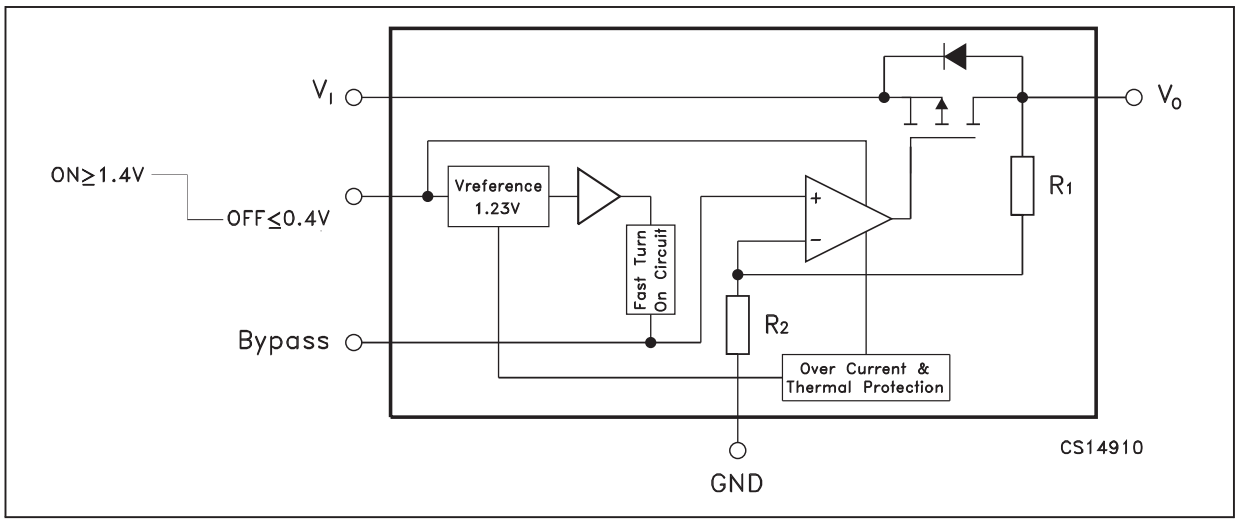
Figure 8-2 Internal block diagram and pin configuration

.3 Diagram SSB: DC/DC +3V3 +1V2 Standby B01B, LD3985M (IC 7201)

Block Diagram



Pin Configuration

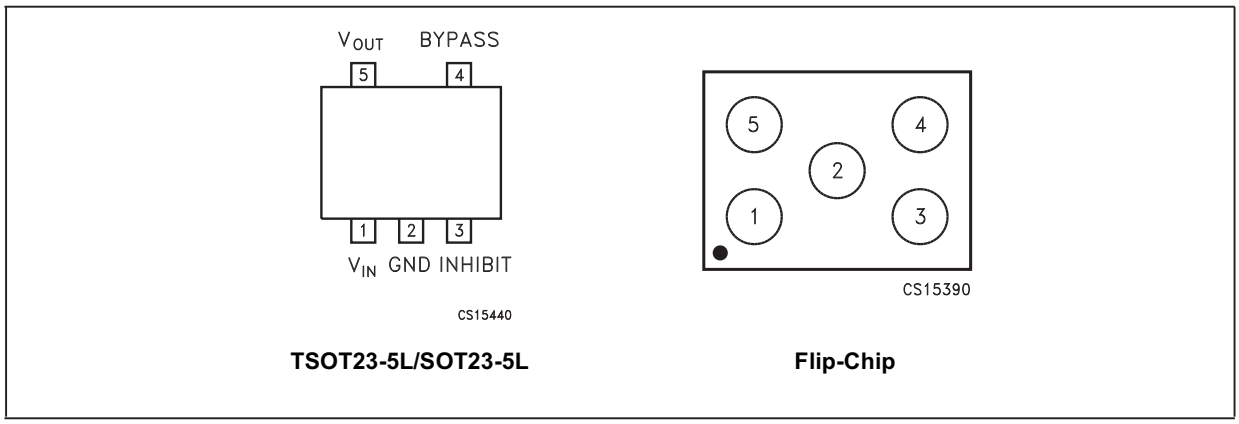


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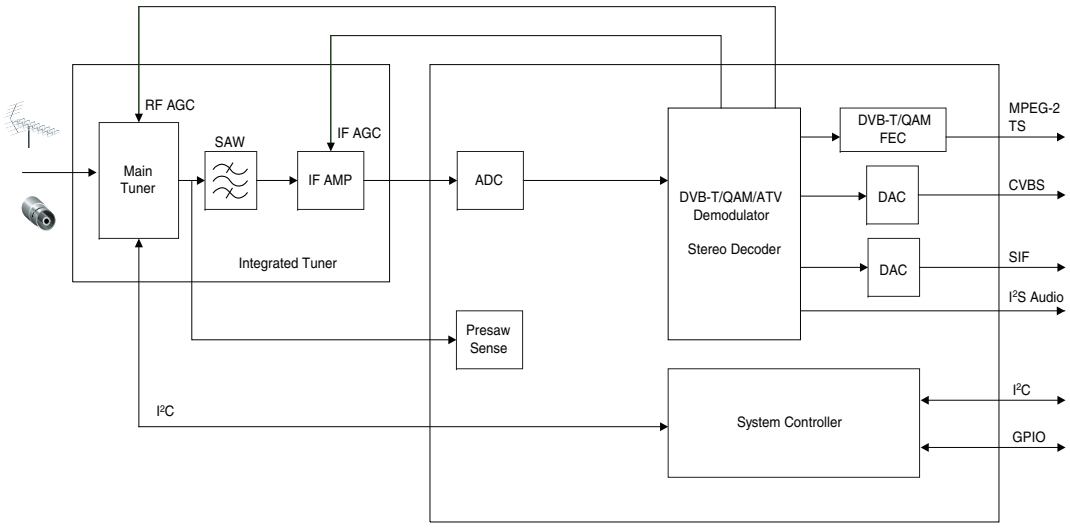
Figure 8-3 Internal block diagram and pin configuration

Diagram SSB: Front End B02A, DRX3926K (IC 7303)

Block Diagram



Pin Configuration

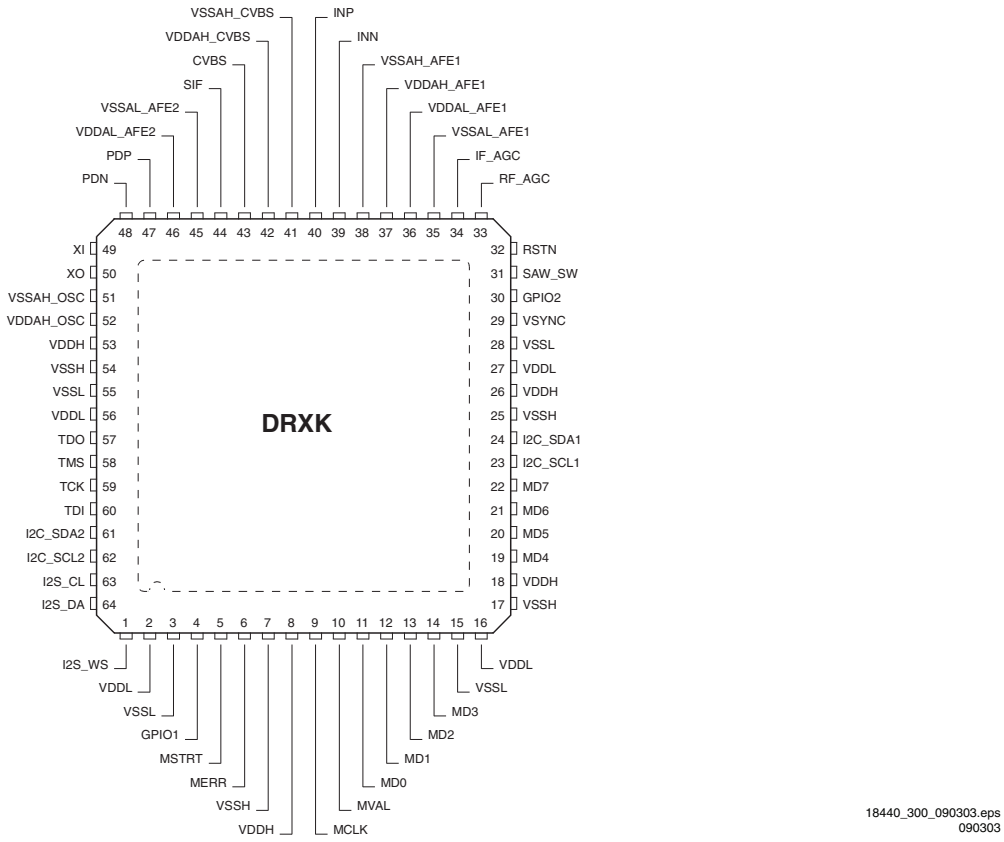
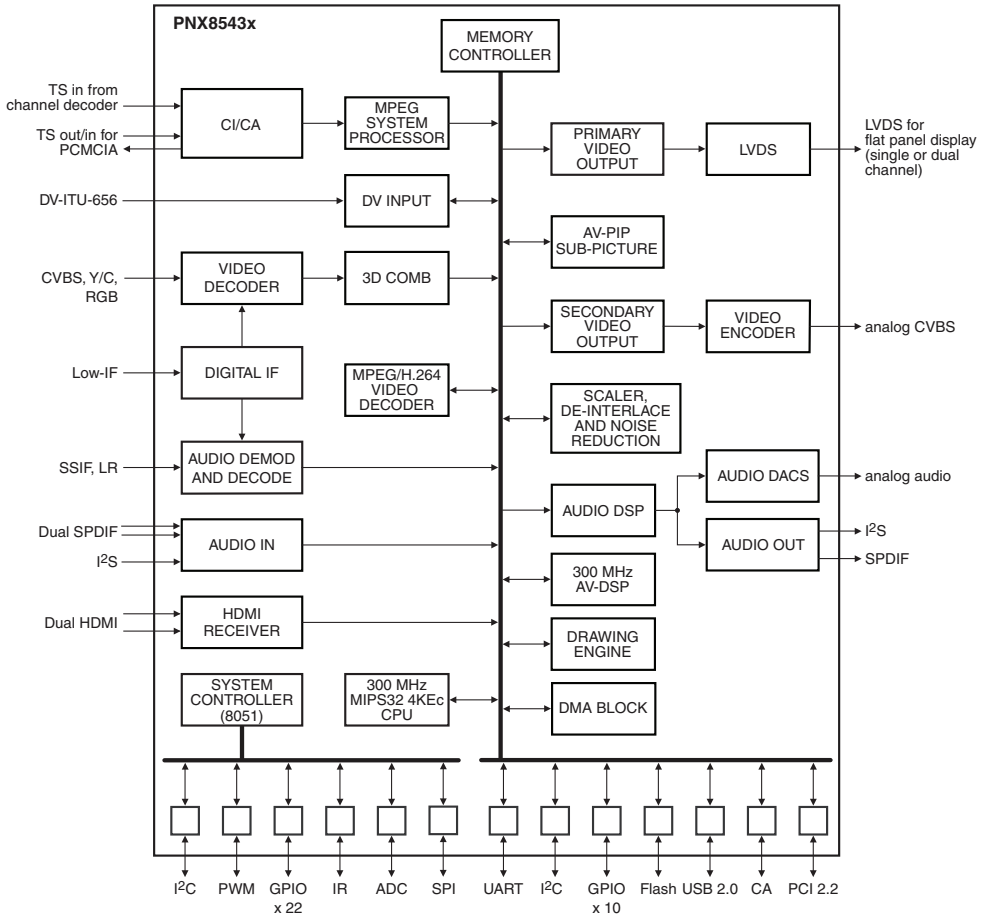
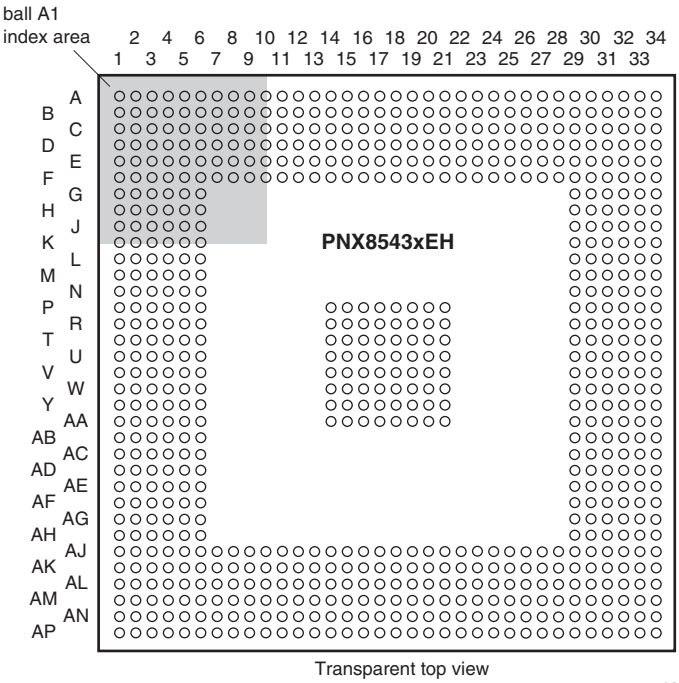


Figure 8-4 Pin configuration

Block Diagram



Pin Configuration



Transparent top view

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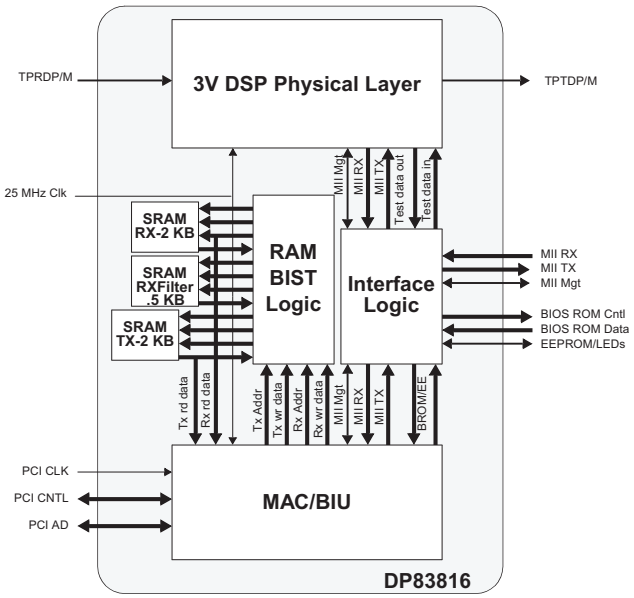
090303

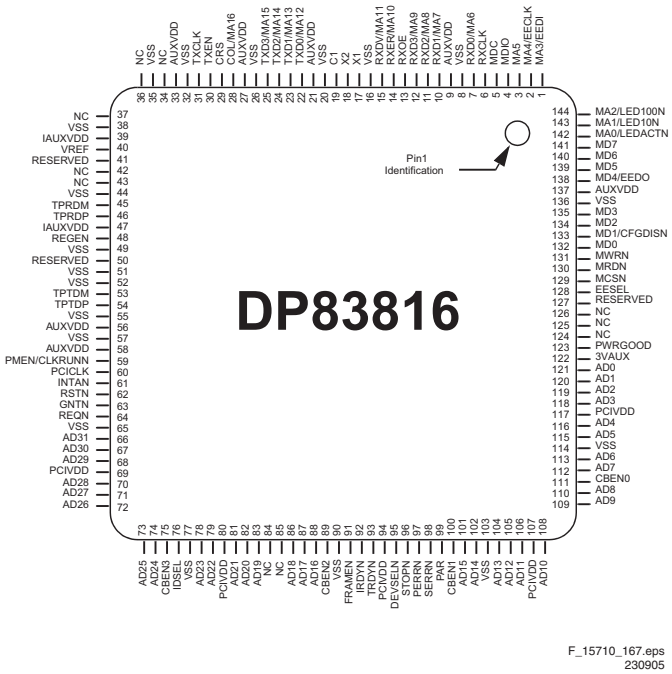
Figure 8-5 Internal block diagram and pin configuration

Diagram SSB: Ethernet B05B, DP83816 (IC7N04)

Block Diagram



Pin Configuration



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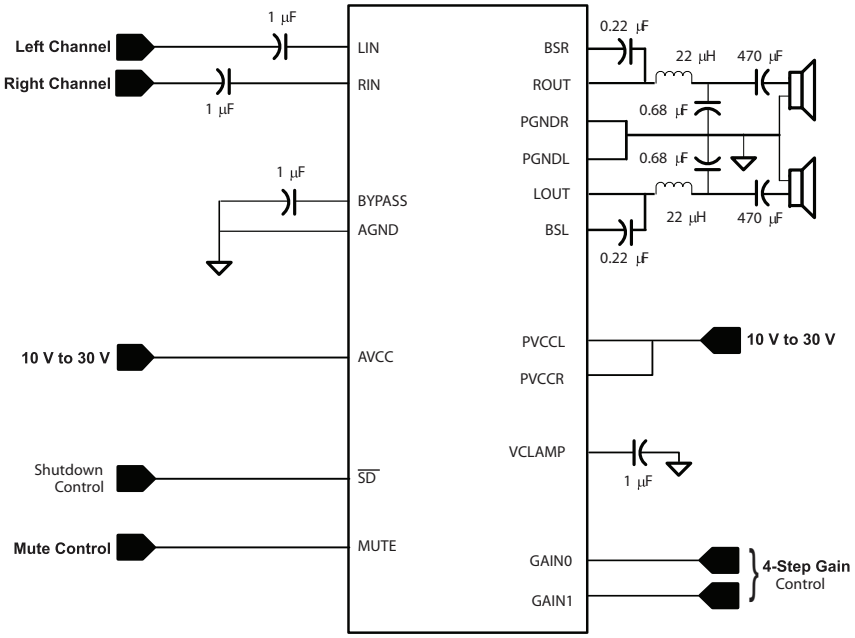
230905

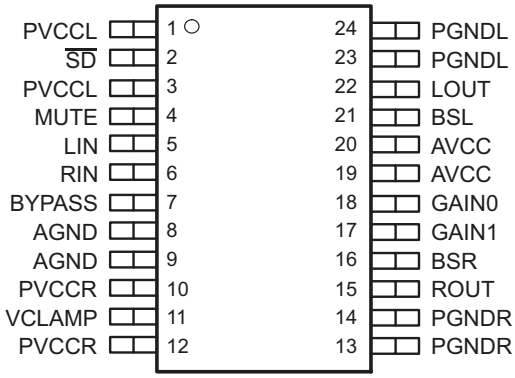
Figure 8-6 Internal block diagram and pin configuration

Diagram SSB: Class-D B06A, TPA3123D (IC 7L10)

Block Diagram



Pin Configuration

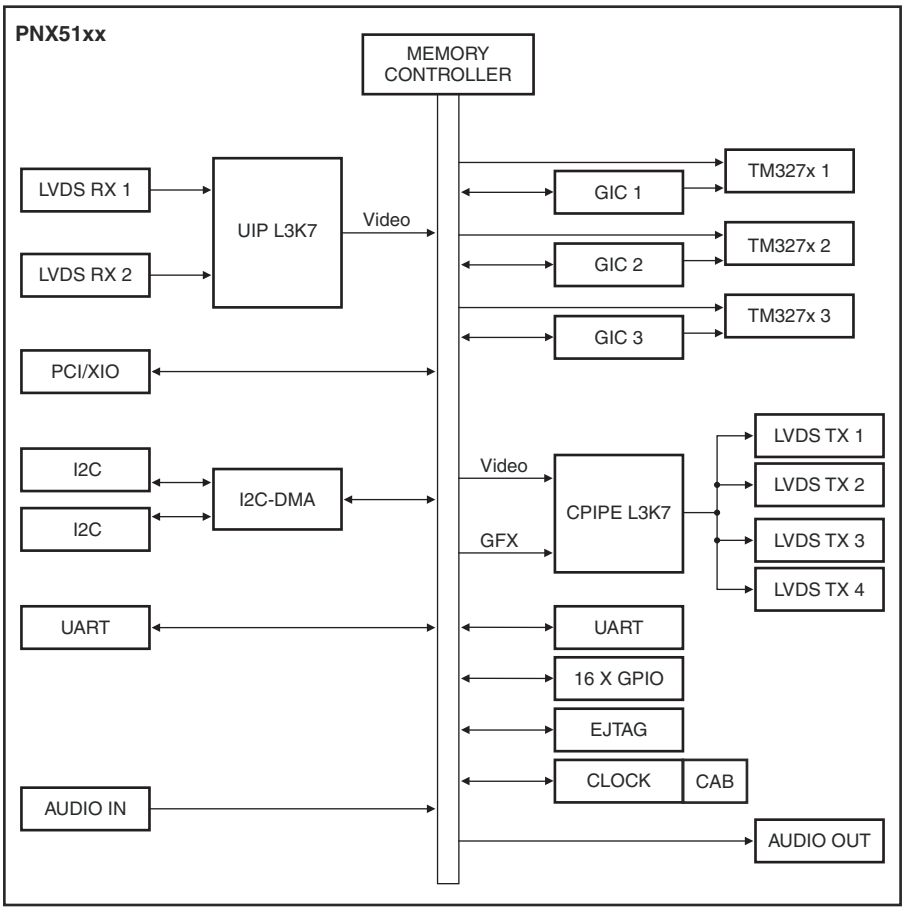


TERMINAL		I/O/P	DESCRIPTION
NAME	24-PIN (PWP)		
$\overline{SD}$	2	I	Shutdown signal for IC (low = disabled, high = operational). TTL logic levels with compliance to AVCC
RIN	6	I	Audio input for right channel
LIN	5	I	Audio input for left channel
GAIN0	18	I	Gain select least-significant bit. TTL logic levels with compliance to AVCC
GAIN1	17	I	Gain select most-significant bit. TTL logic levels with compliance to AVCC
MUTE	4	I	Mute signal for quick disable/enable of outputs (high = outputs switch at 50% duty cycle, low = outputs enabled). TTL logic levels with compliance to AVCC
BSL	21	I/O	Bootstrap I/O for left channel
PVCCL	1, 3	P	Power supply for left-channel H-bridge, not internally connected to PVCCR or AVCC
LOUT	22	O	Class-D 1/2-H-bridge positive output for left channel
PGNDL	23, 24	P	Power ground for left-channel H-bridge
VCLAMP	11	P	Internally generated voltage supply for bootstrap capacitors
BSR	16	I/O	Bootstrap I/O for right channel
ROUT	15	O	Class-D 1/2-H-bridge negative output for right channel
PGNDR	13, 14	P	Power ground for right-channel H-bridge.
PVCCR	10, 12	P	Power supply for right-channel H-bridge, not connected to PVCCL or AVCC
AGND	9	P	Analog ground for digital/analog cells in core
AGND	8	P	Analog ground for analog cells in core
BYPASS	7	O	Reference for preamplifier inputs. Nominally equal to AVCC/8. Also controls start-up time via external capacitor sizing.
AVCC	19, 20	P	High-voltage analog power supply. Not internally connected to PVCCR or PVCCL
Thermal pad	Die pad	P	Connect to ground. Thermal pad should be soldered down on all applications to properly secure device to printed wiring board.

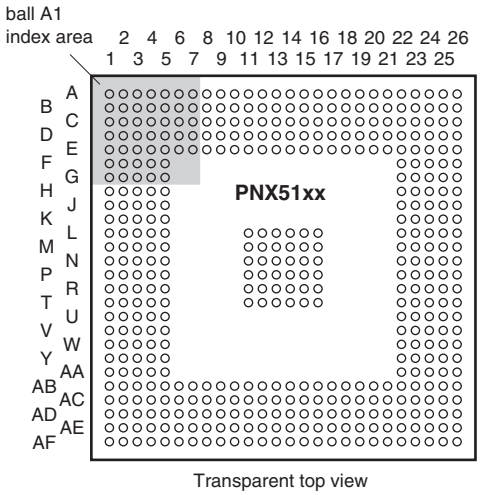
18440_302_090303.eps
090303

Figure 8-7 Internal block diagram and pin configuration

Block Diagram



Pin Configuration



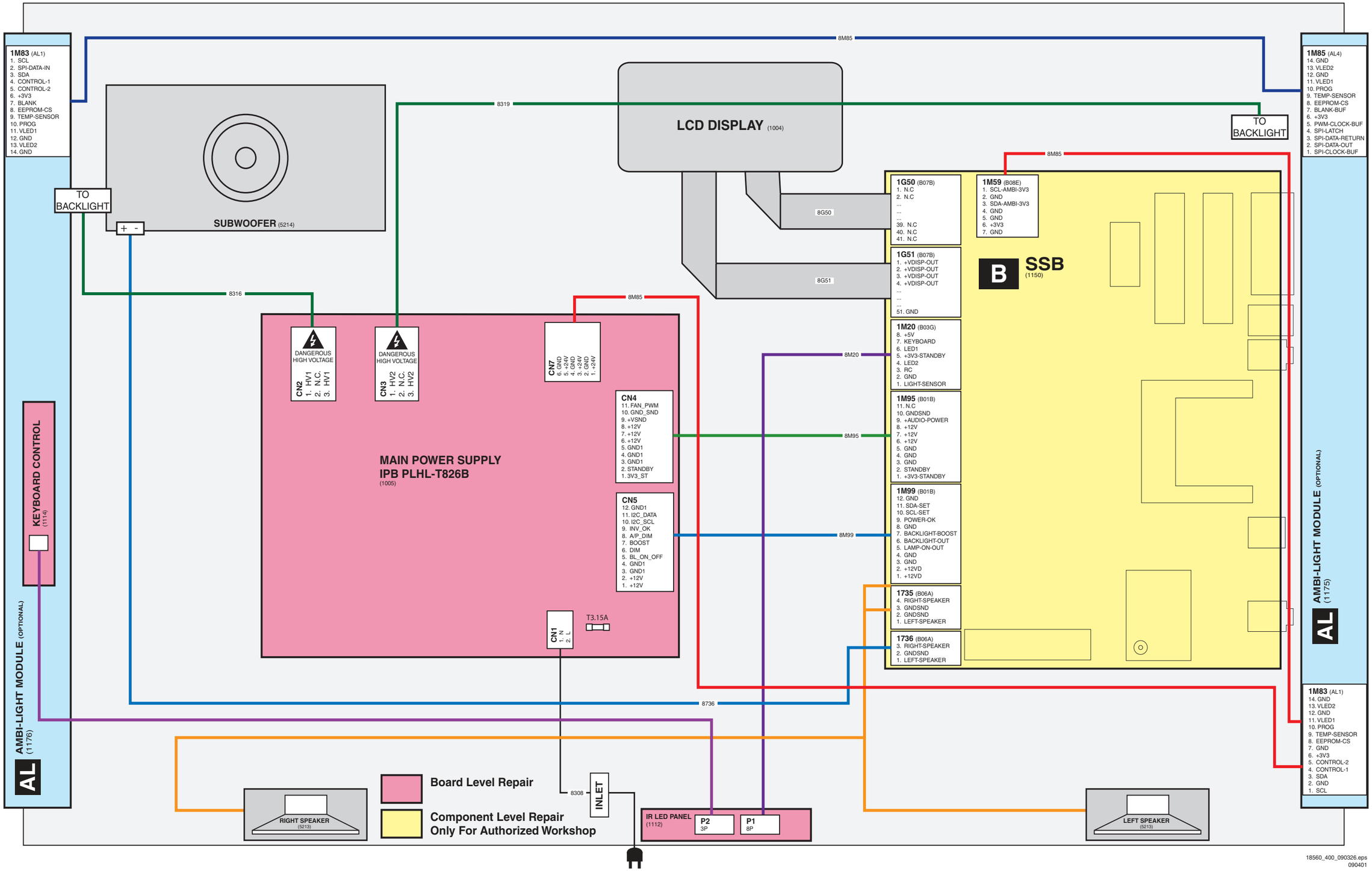
18560_300_090403.eps
090403

Figure 8-8 Internal block diagram and pin configuration

9. Block Diagrams

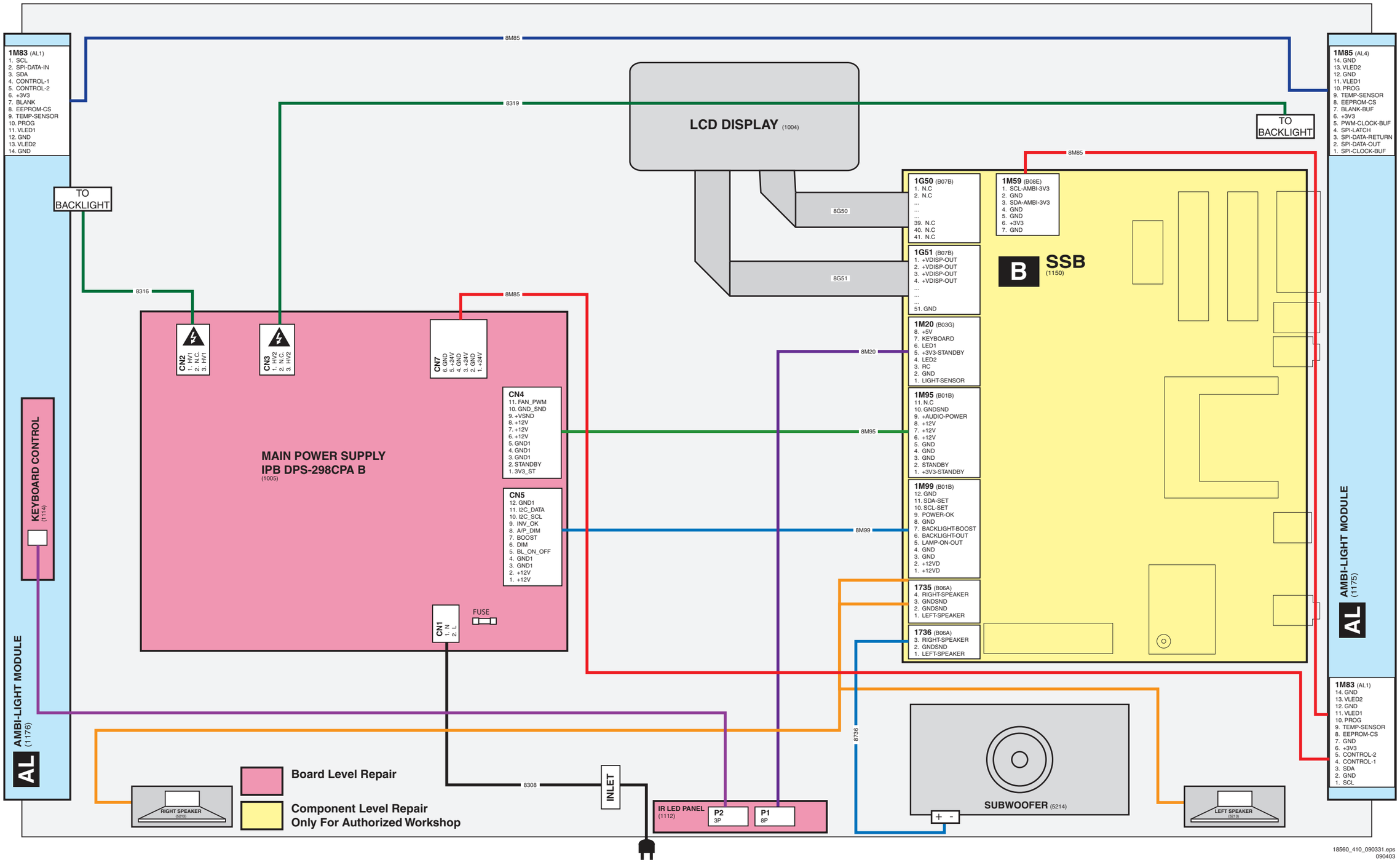
Wiring Diagram 32" (Frame)

WIRING DIAGRAM 32" (FRAME / ROADRUNNER)



Wiring Diagram 37" (Roadrunner)

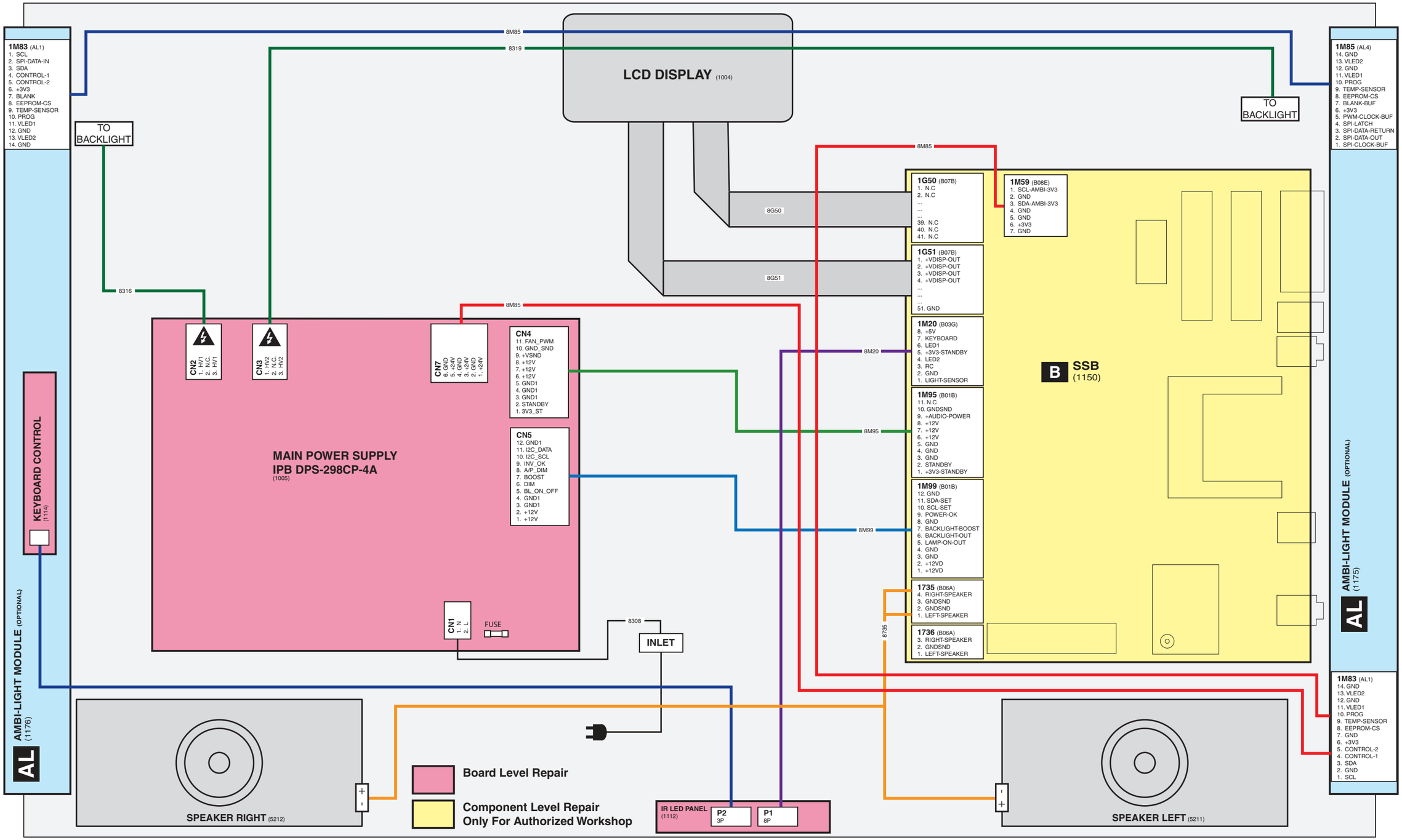
WIRING DIAGRAM 37" (ROADRUNNER)



18560_410_090331.eps
090403

Wiring Diagram 42" (Frame/Roadrunner)

WIRING DIAGRAM 42" (FRAME / ROADRUNNER)



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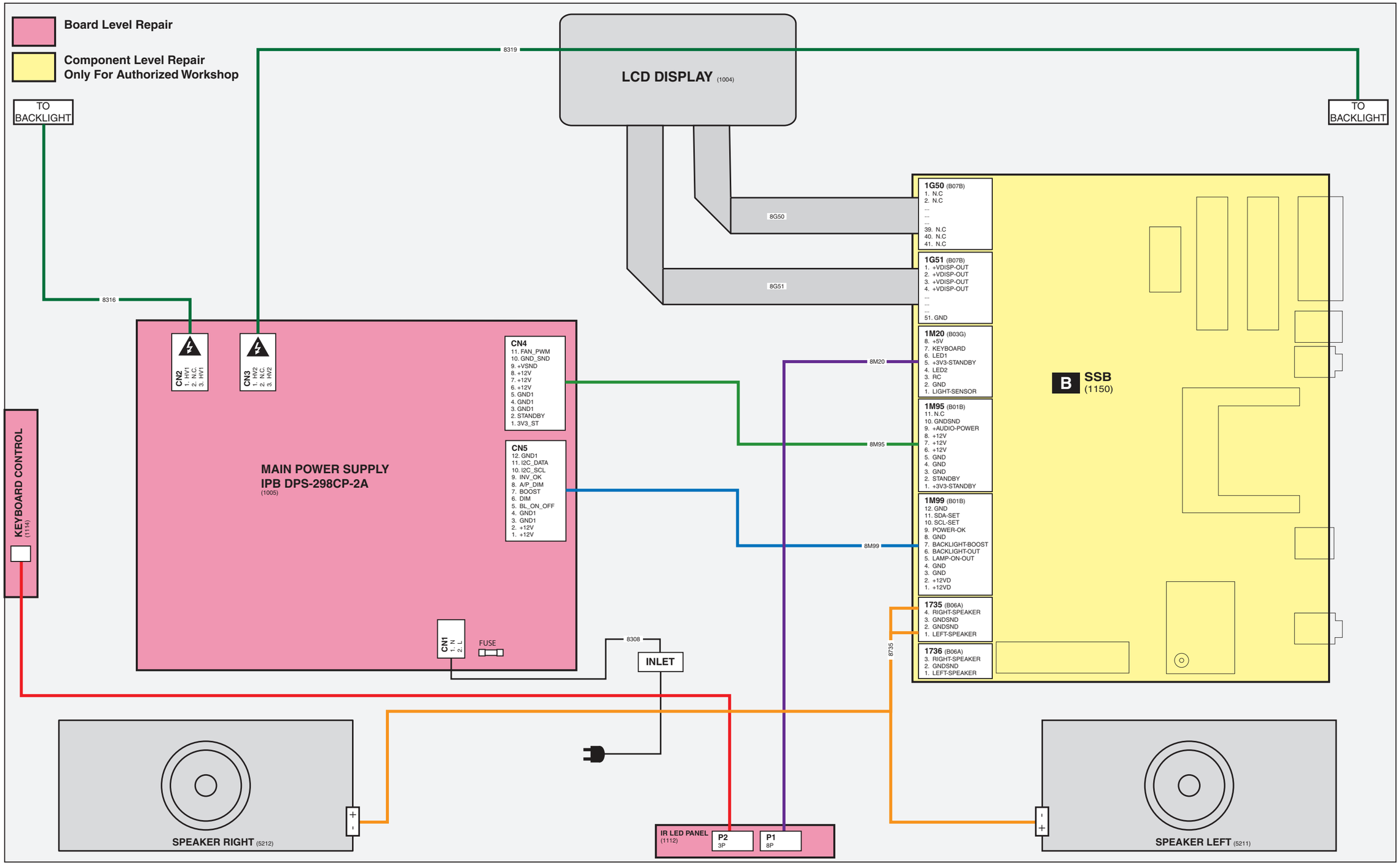
090403

Wiring Diagram 47" (Frame)

WIRING DIAGRAM 47" (FRAME)



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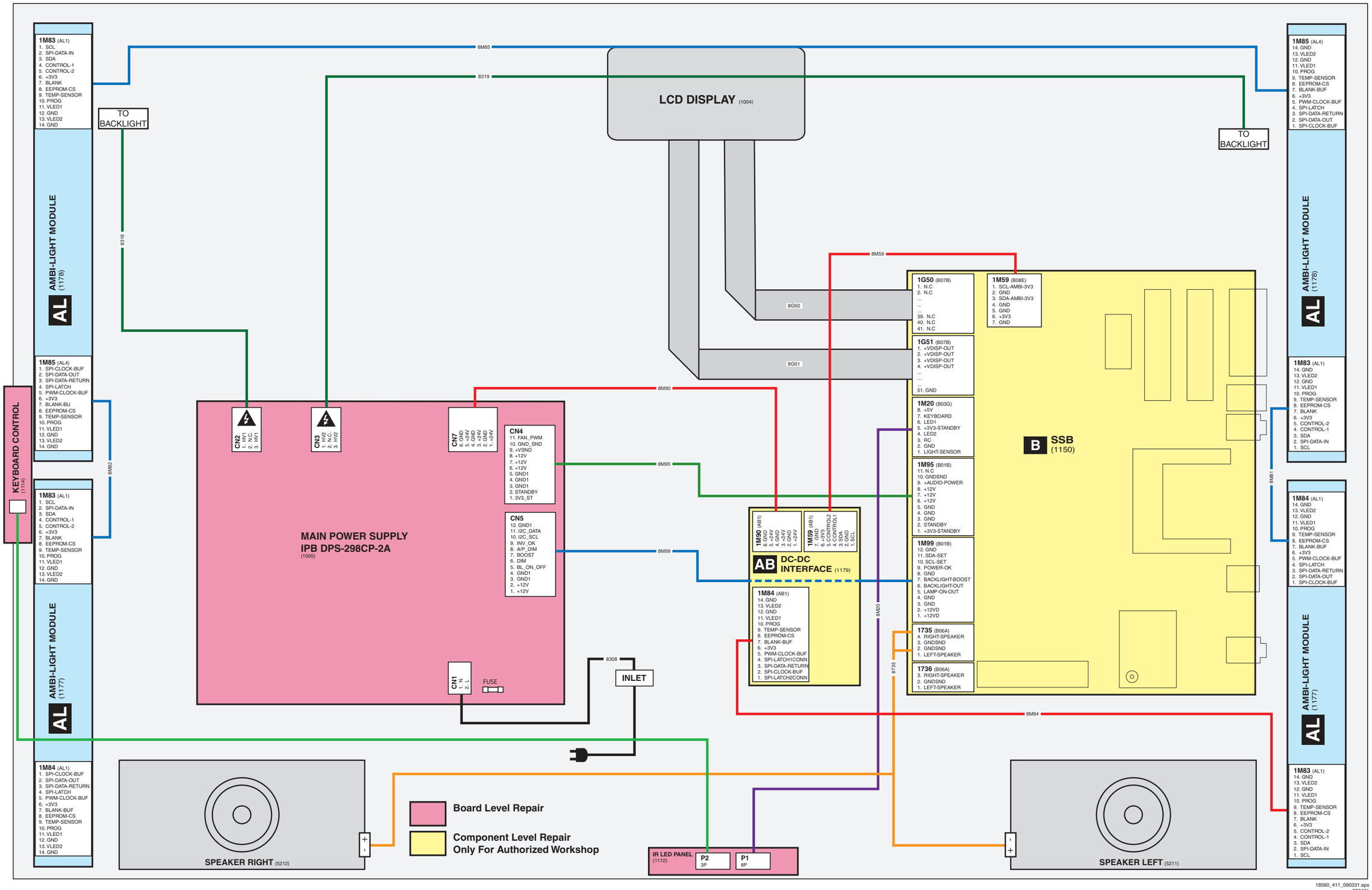
090331

Wiring Diagram 47" (Roadrunner)

WIRING DIAGRAM 47" (ROADRUNNER)



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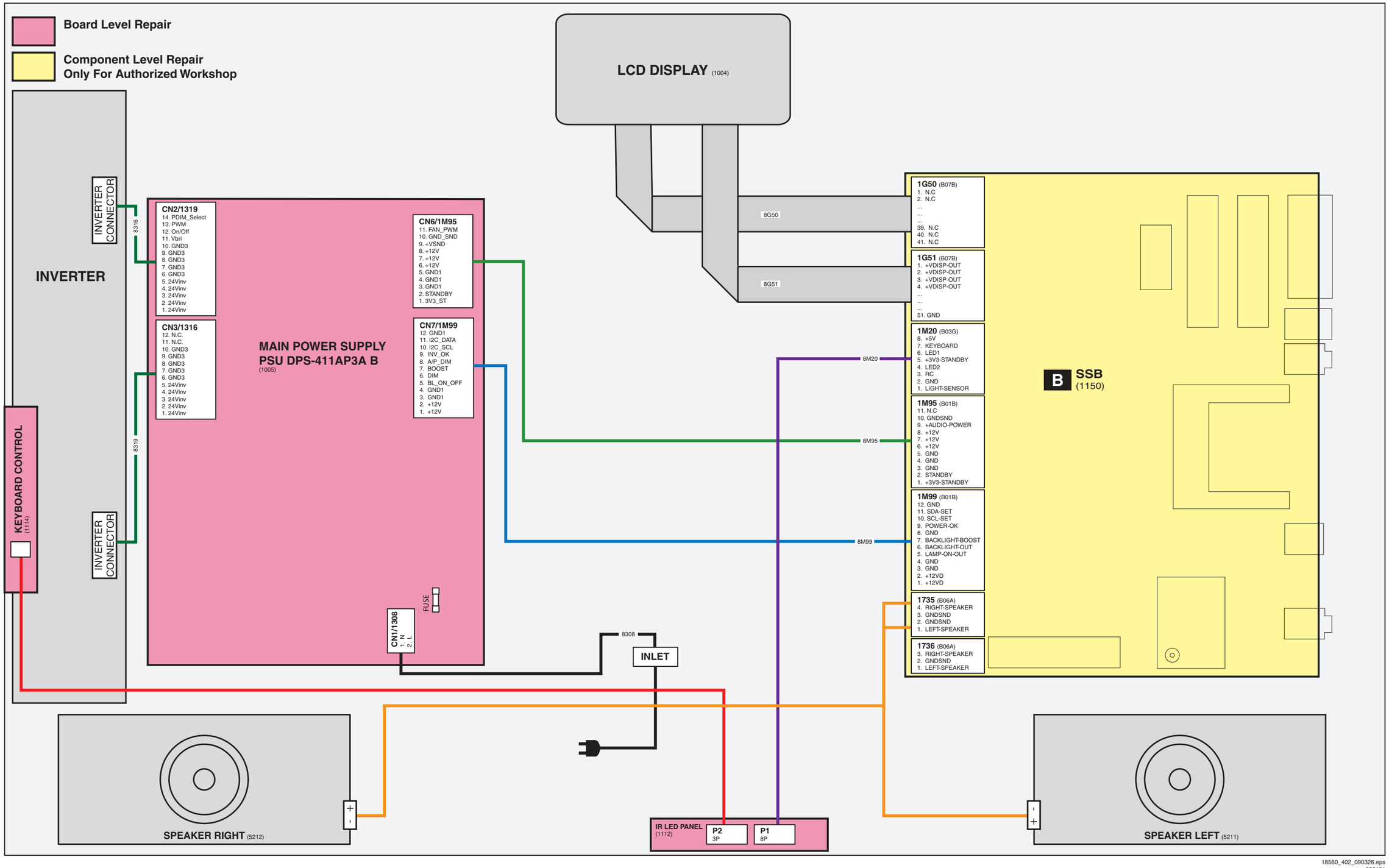
090401

Wiring Diagram 52" (Frame)

WIRING DIAGRAM 52" (FRAME)



18560_402_090326.eps
090401

Block Diagram Video

VIDEO

B02A FRONT END

B05C PCMCIA

B03 PNX8543

B08D PNX5100 - LVDS IN/OUT

B07B DISPLAY INTERFACE

B05A HDMI

B04B ANALOG IO - SCART 1&2

B04C YPBR / SIDE IO / S-VIDEO

B05A HDMI_DV

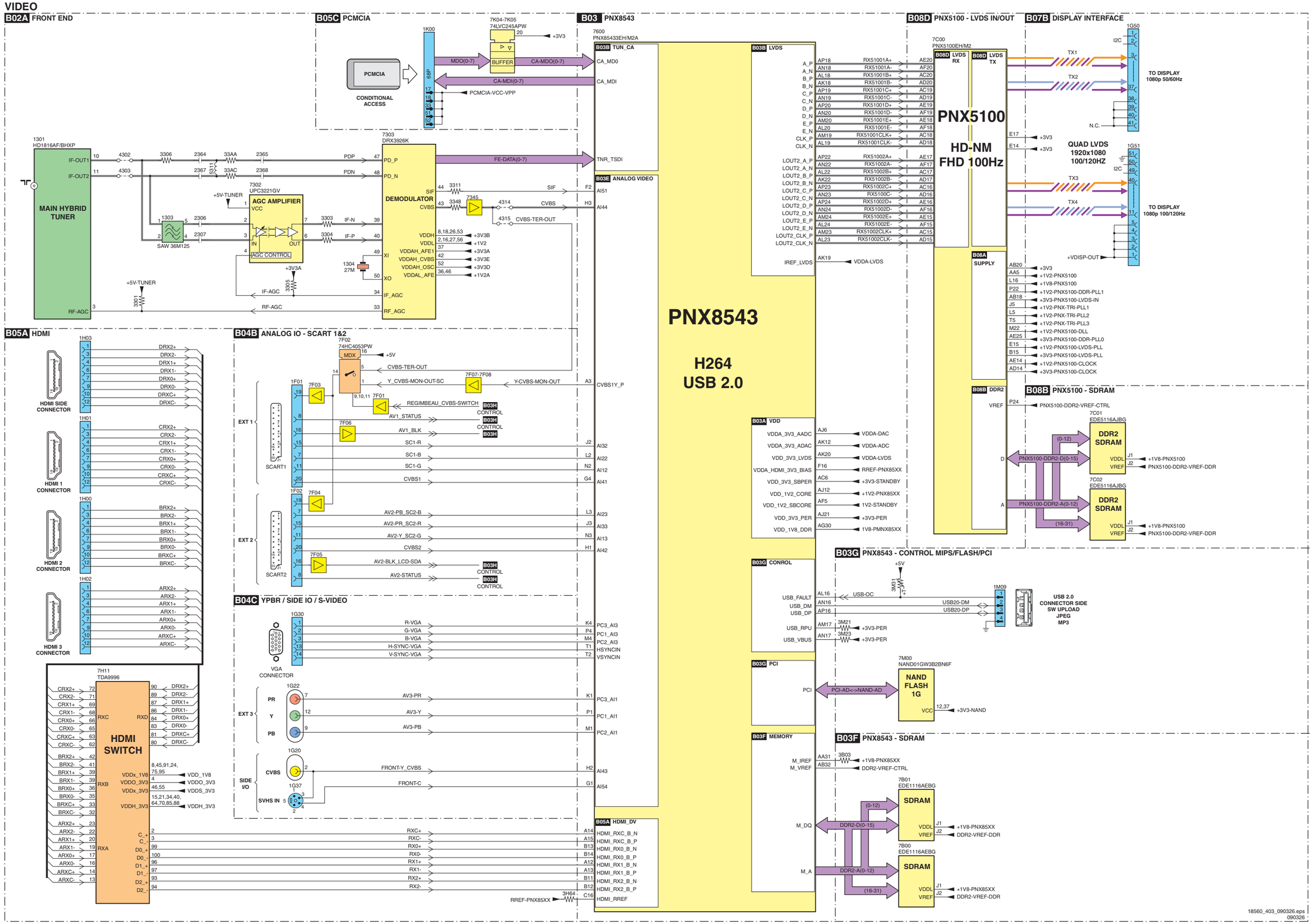
B03G CONROL

B03G PCI

B03F MEMORY

B03G PNX8543 - CONTROL MIPS/FLASH/PCI

B03F PNX8543 - SDRAM



Block Diagram Audio

AUDIO

B02A FRONT END

1301 HD1816AF/BHXP

MAIN HYBRID TUNER

IF-OUT1, IF-OUT2, RF-AGC

4302, 4303, 3306, 2364, 33AA, 2365, 2367, 5311, 33AC, 2368

1303 SAW 36M125

2306, 2307

7302 UPC3221GV

AGC AMPLIFIER

VCC, IN, OUT, AGC CONTROL

+5V-TUN, +3V3A

3303 IF-N, 3304 IF-P, 3305 IF-AGC, 3305 RF-AGC

1304 27M

B05C PCMCIA

PCMCIA

CONDITIONAL ACCESS

1K00 68P

7K04-7K05 74LVC245APW

BUFFER

MDO(0-7), CA-MDO(0-7), CA-MDI(0-7), PCMCIA-VCC-VPP, +3V3

B03 PNX8543

7H00 PNX85439EH/M2

B03B TUNER_CA

CA_MD0, CA_MDI

B03E ANALOG VIDEO

AI51, AI44

7303 DRX3926K

DEMODULATOR

PD_P, PD_N, SIF, CVBS, XI, XO, IF_AGC, RF_AGC

FE-DATA(0-7), TNR_TSDI

3311, 7345, 4314, 3348

8,18,26,53 +3V3B; 2,16,27,56 +1V2; 37 +3V3A; 42 +3V3E; 52 +3V3D; 36,46 +1V2A

PNX8543

H264 USB 2.0

B03D AUDIO

ADAC7, ADAC8, AIN_1_L, AIN_1_R, AIN_2_L, AIN_2_R, AIN_3_L, AIN_3_R, AIN_5_L, AIN_5_R, AIN_4_L, AIN_4_R

B04H DIGITAL VIDEO IN

HDMI_RXC_B_N, HDMI_RXC_B_P, HDMI_RX0_B_N, HDMI_RX0_B_P, HDMI_RX1_B_N, HDMI_RX1_B_P, HDMI_RX2_B_N, HDMI_RX2_B_P, HDMI_RREF

B06A CLASS-D

B03D AUDIO

AADC, VREF_POS, VDDA_3V3_DAC, ADAC1, ADAC2

5902, 5900

VDDA-AUDIO, VDDA-DAC

7L10 TPA3123D2PWP

CLASS D POWER AMPLIFIER

PVCC_L, PVCC_R, IN-L, IN-R, SD, OUT-L, OUT-R, MUTE

5L07, 5L08 +AUDIO-POWER

ADAC(1), ADAC(2)

LEFT-SPEAKER, RIGHT-SPEAKER

1735 SPEAKER L, 1736 SPEAKER R

5L09, 5L10

SUBWOOFER (OPTIONAL)

B03H STANDBY

PO_7, AUDIO-MUTE, 3L17, A-STBY, MUTE

7L03 STANDBY & PROTECTION

B03C PNX8543 - AUDIO AMPLIFIER

PO_6, AD1, AUDIO-RESET, 7807-1, 7807-2, A-PLOP → B04B, B04C

7830 TPA6111A2DGN

HEADPHONE AMPLIFIER

SHUTDOWN, IN-1, IN-2, VO_1, VO_2, VDD

ADAC(3), ADAC(4), HP_LOUT, HP_ROUT, +3V3

1G21 HEADPHONE OUT 3.5mm

B04C YPBR / SIDE IO / S-VIDEO

B03C CONROL

USB_FAULT, USB_DM, USB_DP, USB_RPU, USB_VBUS

AL16, AN16, AP16, AM17, AN17

3M31 +5V, USB-OC, USB20-DM, USB20-DP, 3M21 +3V3-PER, 3M23 +3V3-PER

1M09 USB 2.0 CONNECTOR SIDE SW UPLOAD JPEG MP3

B03C PCI

PCI, PCI-AD24<->NAND-AD

7M00 NAND01GW3B2BN6F NAND FLASH 1G

12,37 +3V3-NAND

B03F MEMORY

M_IREF, M_VREF, M_DQ, M_A

AA31, AB32, 3B03 +1V8-PNX85XX, DDR2-VREF-CTRL

DDR2-D(0-15), DDR2-A(0-12)

B03F PNX8543 - SDRAM

7B01 EDE1116AEBG SDRAM

7B00 EDE1116AEBG SDRAM

(0-12), (16-31), J1 +1V8-PNX85XX, J2 DDR2-VREF-DDR

B03C PNX8543 - CONTROL MIPS/FLASH/PCI

B05A HDMI

HDMI SIDE CONNECTOR 1H03

HDMI 1 CONNECTOR 1H01

HDMI 2 CONNECTOR 1H00

HDMI 3 CONNECTOR 1H02

DRX2+, DRX2-, DRX1+, DRX1-, DRX0+, DRX0-, DRXC+, DRXC-

CRX2+, CRX2-, CRX1+, CRX1-, CRX0+, CRX0-, CRXC+, CRXC-

BRX2+, BRX2-, BRX1+, BRX1-, BRX0+, BRX0-, BRXC+, BRXC-

ARX2+, ARX2-, ARX1+, ARX1-, ARX0+, ARX0-, ARXC+, ARXC-

RES FOR /32

7H11 TDA9996

HDMI SWITCH

RXA, RXB, RXC, RXD

VDDx_1V8 8,45,91,24,75,95 VDD_1V8

VDDO_3V3 4 VDDO_3V3

VDDx_3V3 46,55 VDDS_3V3

VDDH_3V3 15,21,34,40,64,70,85,88 VDDH_3V3

C_+, C_-, D0_+, D0_-, D1_+, D1_-, D2_+, D2_-

HDMIB-RXC+, HDMIB-RXC-, HDMIB-RX0+, HDMIB-RX0-, HDMIB-RX1+, HDMIB-RX1-, HDMIB-RX2+, HDMIB-RX2-

RREF-PNX85XX 3H64

B04B ANALOG - SCART 1&2

EXT 1 SCART1 1F01

EXT 2 SCART2 1F02

AP-SCART-OUT-L, AP-SCART-OUT-R, AUDIO-IN1-L, AUDIO-IN1-R, AUDIO-IN2-L, AUDIO-IN2-R

3F00 AUDIO-CL-L, 3F02 AUDIO-CL-R

7F00 A-PLOP → B03C

B03C PNX8543 - AUDIO AMPLIFIER

7803-1/2 ADAC(7), ADAC(8)

B04C YPBR / SIDE IO / S-VIDEO

DIGITAL AUDIO OUT 1G25, 7G01 EF, SPDIF-OUT-1, SPDIF_OUT

AUDIO OUT L+R, AUDIO-OUT-L, AUDIO-OUT-R, 7803-3/4 ADAC(5), ADAC(6), ADAC5, ADAC6

7G00 A-PLOP → B03C

EXT 3 AUDIO IN L+R 1G22, AUDIO-IN3-L, AUDIO-IN3-R, AM6, AN6

SIDE I/O AUDIO IN L+R 1G20, AUDIO-IN5-L, AUDIO-IN5-R, AN5, AP5

AUDIO IN DVI -> HDMI 1G18, AUDIO-IN4-L, AUDIO-IN4-R, AP6, AM5

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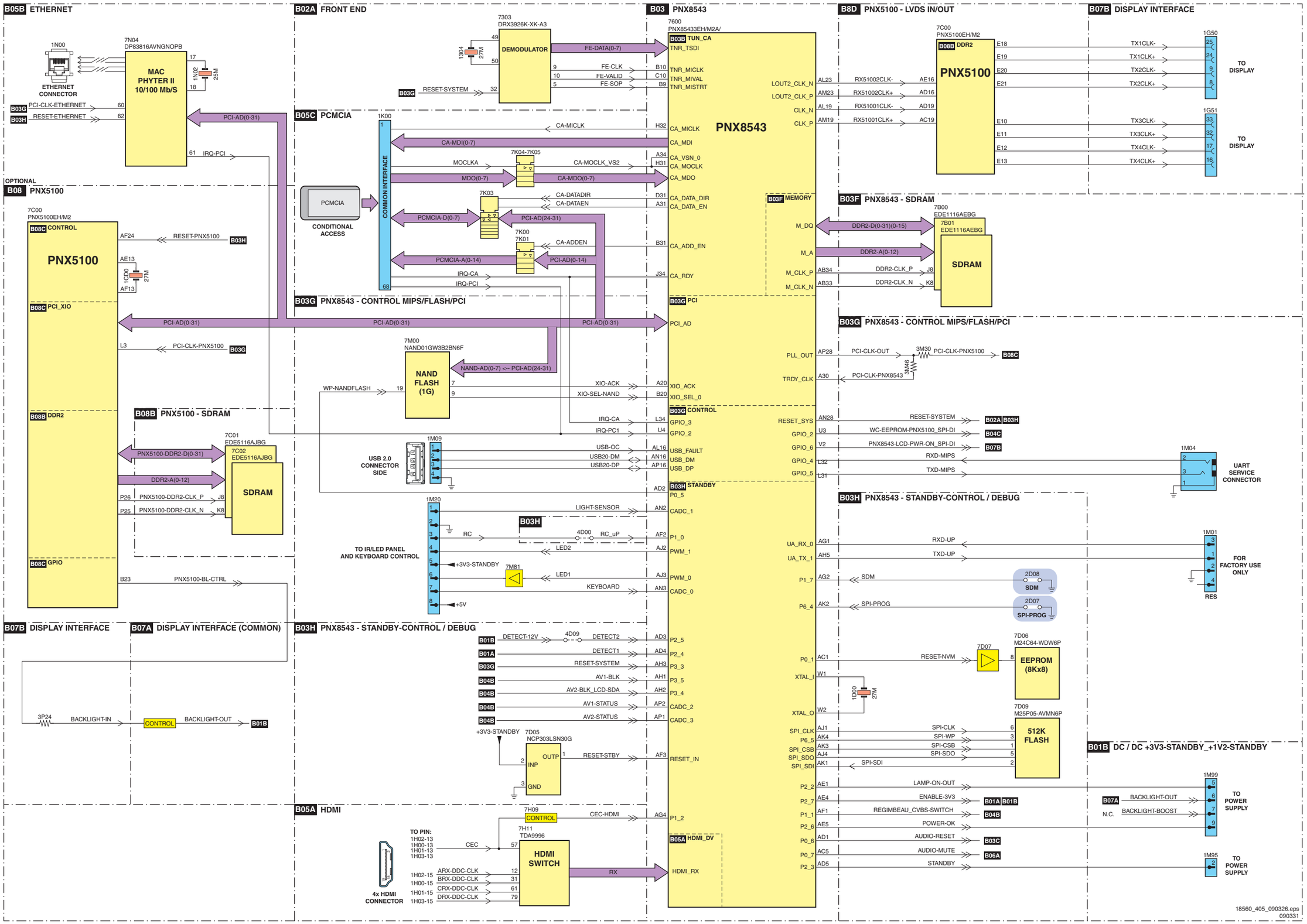
Block Diagram Control & Clock Signals

CONTROL + CLOCK SIGNALS



Block Diagram I²C

I²C

B03C PNX8543 - CONTROL MIPS/FLASH/PCI

7600 PNX85433EH/M2A

PNX8543

SSB BUS 400 kHz

+3V3-PER

3M27 3M26

SDA 3 G32 SDA3 3M19

SCL 3 D33 SCL3 3M18

ERR 13

B03F PNX8543 - SDRAM

7B01 EDE1116AEBG

7B00 EDE1116AEBG

SDRAM

B03F MEMORY M_DQ DDR2-D

M_A DDR2-A

B05A HDMI_DV DDC_SDA_B D15 DDC-SDA

DDC_SCL_B C15 DDC-SCL

B03G PNX8543 - CONTROL MIPS/FLASH/PCI

7M00 NAND01GW3B2

FLASH 1G

B03G PCI PCI_AD PCI-AD

B05A HDMI

SDA-SSB

SCL-SSB

3H66 3H65

7H11 TDA9996 HDMI MUX

ERR 23

+5V 3H01 3H02

ARX-5V 3H08 3H07

ARX-DDC-DAT

ARX-DDC-CLK

1H02 HDMI CONNECTOR 3

BRX-5V 3H10 3H09

BRX-DDC-DAT

BRX-DDC-CLK

1H00 HDMI CONNECTOR 2

CRX-5V 3H14 3H13

CRX-DDC-DAT

CRX-DDC-CLK

1H01 HDMI CONNECTOR 1

DRX-5V 3H12 3H11

DRX-DDC-DAT

DRX-DDC-CLK

1H03 HDMI CONNECTOR SIDE

B02A FRONT END

3399 3398

7303 DRX3926K-XK DEMODULATOR MICRONAS

ERR 27

+3V3B 3388 3365

TUNER BUS 400 kHz

SDA-TUNER

SCL-TUNER

3317 3316

1301 HD1816AF MAIN TUNER

ERR 34

B08C PNX5100 - CONTROL / PCI / DEBUG

3CDD 3CDC

7CD0 M24C08 EEPROM

ERR 25

3CD8 3CD9

7C00 PNX5100EH PNX5100

ERR 15 ERR 21

L1 3CDA

L2 3CD9

B08E PNX5100 - AMBILIGHT

+3V3 3388 3365

AMBILIGHT BUS 30 kHz

SDA-AMBI-3V3

SCL-AMBI-3V3

1M59

TO AMBILIGHT (OPTIONAL)

+3V3 5CE5 1CE2 T1.0A

B08E PNX5100 - SDRAM

7C01 EDE5116AJBG

7C02 EDE5116AJBG

SDRAM

PNX5100-DDR2-D(0-31)

PNX5100-DDR2-A(0-12)

B01B DC / DC +3V3-STANDBY_+1V2-STANDBY

SET BUS 100 kHz

+3V3-PER 3M93 3M92

SDA 2 B33 SDA2 3M91 SDA-SET

SCL 2 D32 SCL2 3M90 SCL-SET

ERR 14

STANDBY BUS 400 kHz

+3V3-PER 3M25 3M24

SDA 1 H33 SDA1 3M15 SDA-UP-MIPS

SCL 1 F33 SCL1 3M14 SCL-UP-MIPS

4202

4201

RES

1M99

TO POWER SUPPLY

B04C YPBR / SIDE IO / S-VIDEO

VGA CONNECTOR

1G30

+5V 3G60 3G56

DATA-SDA

CLK-SCL

3G61 3G58

B03G WC-EEPROM-PNX5100_SPI-DI 7G32

3G63 +3V3

7G31 M24C02 EEPROM 256x8

B03H PNX8543 - STANDBY - CONTROL / DEBUG

+3V3-STANDBY 3D39 3D38

RES

B03H STANDBY

MC_SDA AK5 3D46 SDA-UP-MIPS

MC_SCL AL5 3D45 SCL-UP-MIPS

+3V3-PER 3D56-2 7D07

PO_1 AC1 RESET-NVM 3D56-1

7D06 M24C64 EEPROM (NVM)

ERR 53

7D09 M25P05 512K FLASH

B03C PNX8543 - CONTROL MIPS/FLASH/PCI

+3V3-STANDBY 3D21 3D22

UA_RX_0 AG1 RXD-UP

UA_TX_1 AH5 TXD-UP

3M74 3M73

1M01

FOR FACTORY USE ONLY

RES

B04A BOLT-ON

+3V3-PER 3M09 3M10

GPIO_4 L32 RXD-MIPS

GPIO_5 L31 TXD-MIPS

4E18 RXD

4E19 TXD

3M76 3M75

1M04

UART SERVICE CONNECTOR

18560_406_090326.eps
090331

Supply Lines Overview

SUPPLY LINES OVERVIEW

MAIN POWER SUPPLY

B01B DC / DC +3V3-STANDBY_+1V2-STANDBY

CN5: +12V, +12V, GND1, GND1, BL-ON_OFF, DIM, BOOST, A/P_DIM, INV_OK
1M99
+12VD → B07a
LAMP-ON-OUT → B03H CONTROL
BACKLIGHT-OUT → B07A CONTROL
BACKLIGHT-BOOST → N.C.
POWER-OK → B03H CONTROL

CN4: 3V3_ST, STANDBY, GND1, GND1, GND1, +12V, +12V, +12V, +VSND, GND_SND, N.C.
1M95
+3V3-STANDBY → B03a,g,h, B04a,B05a,
7201 IN OUT COM
+1V2-STANDBY → B03a
STANDBY → B03H CONTROL
+12V
5203, 7202 VOLT. REG., 5204, 6217, +5V → B01a,B02a, B04a; B02a, B03d,g,h, B04a,b,c, B05a,c, B07a
+5V5-TUN → B02a
5221, 7222 VOLT. REG., +1V2-PNX5100 → B03h,B08a
+AUDIO-POWER → B03c,B06a
N.C.

SENCE+1V2-PNX5100 ← B08a → SENCE+1V2-PNX5100

B01A DC / DC +3V3_+1V2

SENSE+1V2-PNX85XX ← B03a → SENSE+1V2-PNX85XX
+12V ← B01b → +12VF
5104
7103 NCP5422ADG: Dual Synchronous Step-Down Controller
3108
7101-1, 7U01-2: 12V/3V3 COVERSION
5101 → +3V3 → B02a, B03d,g,h, B04b,c,B05a,b,c, B07a,b, B08a,c,d,e
5105 → +3V3F → B03a,B08a
7102-1, 7102-2: 12V/1V2 COVERSION
5103 → +1V2-PNX85XX → B03a,h

CN2: HV1, N.C., HV1 — TO DISPLAY
CN3: HV2, N.C., HV2 — TO DISPLAY

B02A FRONT END

+3V3 ← B01a → +3V3
7308 IN OUT COM
+1V2 ← 5304 ← +1V2A
+5V ← B01b → +5V
7309 IN OUT COM
3V3B ← 5307 ← 3V3A
3V3D ← 5306
3V3E ← 5305
+5V5-TUN ← B01b → +5V5-TUN
7307 IN OUT COM
+5V-TUNER
7315, 3389 ANTENNA-SUPPLY
+12V ← B01b → +12V
RES

B03A PNX8543 - POWER

+1V2-PNX85XX ← B01a → +1V2-PNX85XX
SENSE+1V2-PNX85XX → B01A
+1V2-STANDBY ← B01b → +1V2-STANDBY
+3V3F ← B01a → +3V3F
7601 IN OUT COM
+1V8-PNX85XX → B01b, B03f,B05a
+3V3-STANDBY ← B01b → +3V3-STANDBY
+3V3 ← B01a → +3V3
5612 +3V3-PER
5600 RREF-PNX85xx
5615 VDDA-LVDS → B05a, B03b
VDDA-AUDIO ← B03d → VDDA-AUDIO
5621 VDDA-DAC
5622 VDDA-ADC

B03B PNX8543 - VIDEO STREAMS/LVDS OUTPUT

VDDA-LVDS ← B03a → VDDA-LVDS
+3V3-PER ← B03a → +3V3-PER

B03C PNX8543 - AUDIO AMPLIFIER

+AUDIO-POWER ← B01b → +AUDIO-POWER
4801 RES
3819, 7801 → AUDIO-VDD
7802 CONTROL
+3V3 ← B03a → +3V3

B03D PNX8543 - AUDIO

+3V3 ← B01a → +3V3
+5V ← B01b → +5V
7900 IN OUT COM
VDDA-AUDIO ← B03a,h → VDDA-AUDIO
VDDA-DAC ← B03a → VDDA-DAC

B03F PNX8543 - SDRAM

+1V8-PNX85XX ← B03a → +1V8-PNX85XX
3B47 DDR2-VREF-CTRL
3B48 DDR2-VREF-DDR

B03G PNX8543 - CONTROL MIPS/FLASH/PCI

+3V3 ← B01a → +3V3
5M00 +3V3-NAND
+3V3-PER ← B03a → +3V3-PER
+3V3-STANDBY ← B01b → +3V3-STANDBY
+5V ← B01b → +5V
5M84, 5M88, 1M20

B03H PNX8543 - STANDBY-CONTROL/DEBUG

+1V2-PNX85XX ← B01a → +1V2-PNX8541
+1V2-PNX5100 ← B01b → +1V2-PNX5100
+3V3-STANDBY ← B01b → +3V3-STANDBY
+3V3 ← B01a → +3V3
+3V3-PER ← B03a → +3V3-PER
+5V ← B01b → +5V

B04A BOLT-ON

+3V3-STANDBY ← B01b → +3V3-STANDBY
+5V ← B01b → +5V
+12V ← B01b → +12V
RES

B04B ANALOG IO - SCART 1&2

+3V3 ← B01a → +3V3
+5V ← B03b,g,h → +5V
B01b, B05a, B03b

B04C YPBR / SIDE IO / S-VIDEO

+3V3 ← B01a → +3V3
B03d
+5V ← B01b → +5V

B05A HDMI

+3V3 ← B01a → +3V3
5H01 VDDO_3V3
5H06 VDDS_3V3
5H03 VDDH_3V3
+1V8-PNX85XX ← B03a → +1V8-PNX85XX
5H00 VDD_1V8
+3V3-STANDBY ← B01b → +3V3-STANDBY
+5V ← B01b → +5V
RREF-PMX85XX ← B03a → RREF-PMX85XX
HDMI 3 CONNECTOR 1H02 → ARX-5V
HDMI 2 CONNECTOR 1H00 → BRX-5V
HDMI SIDE CONNECTOR 1H03 → DRX-5V
HDMI 1 CONNECTOR 1H01 → CRX-5V

B05B ETHERNET

+3V3 ← B01a → +3V3
B03a
5N06 +3V3-ET-DIG
5N07 +3V3-ET-ANA

B05C PCMCIA

+3V3 ← B01a → +3V3
5K00 +3V3_BUF
+5V ← B01b → +5V
3K00 PCMCIA-VCC-VPP

TO IR/LED PANEL

B06A CLASS-D

+AUDIO-POWER ← B01b → +AUDIO-POWER

B07A DISPLAY INTERFACING (COMMOM)

+3V3 ← B01a → +3V3
+5V ← B01b → +5V
4P26, 4P28, 4P29, 4P23, 4P30, 4P31 RES +VDISP-IN → B07b
+12VD ← B01b → +12VD

B07B DISPLAY SUPPLY

+3V3 ← B01a → +3V3
+VDISP-IN ← B07a → +VDISP-IN
7P02 +VDISP-OUT
7P03 PNX8543-LCD-PWR-ON_SPI-DI

B08A PNX5100 - POWER

+1V2-PNX5100 ← B01b → +1V2-PNX5100
5C60 +1V2-PNX5100-CLOCK
5C61 +1V2-PNX5100-TRI-PLL1
5C62 +1V2-PNX5100-TRI-PLL2
5C63 +1V2-PNX5100-TRI-PLL3
5C64 +1V2-PNX5100-DDR-PLL1
5C65 +1V2-PNX5100-LVDS-PLL
5C66 +1V2-PNX5100-DLL
CC60 SENSE+1V2-PNX5100 → B01b
+3V3 ← B01a → +3V3
5C67 +3V3-PNX5100-LVDS-IN
5C68 +3V3-PNX5100-CLOCK
5C69 +3V3-PNX5100-DDR-PLL0
5C70 +3V3-PNX5100-LVDS-PLL
+3V3F ← B01a → +3V3F
7C60 IN OUT COM
+1V8-PNX5100 → B08b

B08B PNX5100 - SDRAM

+1V8-PNX5100 ← B08a → +1V8-PNX5100
3C20 PNX5100-DDR2-VREF-CTRL
3C22 PNX5100-DDR2-VREF-DDR

B08C PNX5100 - CONTROL / PCI / DEBUG

+3V3 ← B01a → +3V3

B08D PNX5100 - LVDS IN / OUT

+3V3 ← B01a → +3V3

B08E PNX5100 - AMBILIGHT

+3V3 ← B01a → +3V3
1M59 → TO AMBI-LIGHT (OPTIONAL)

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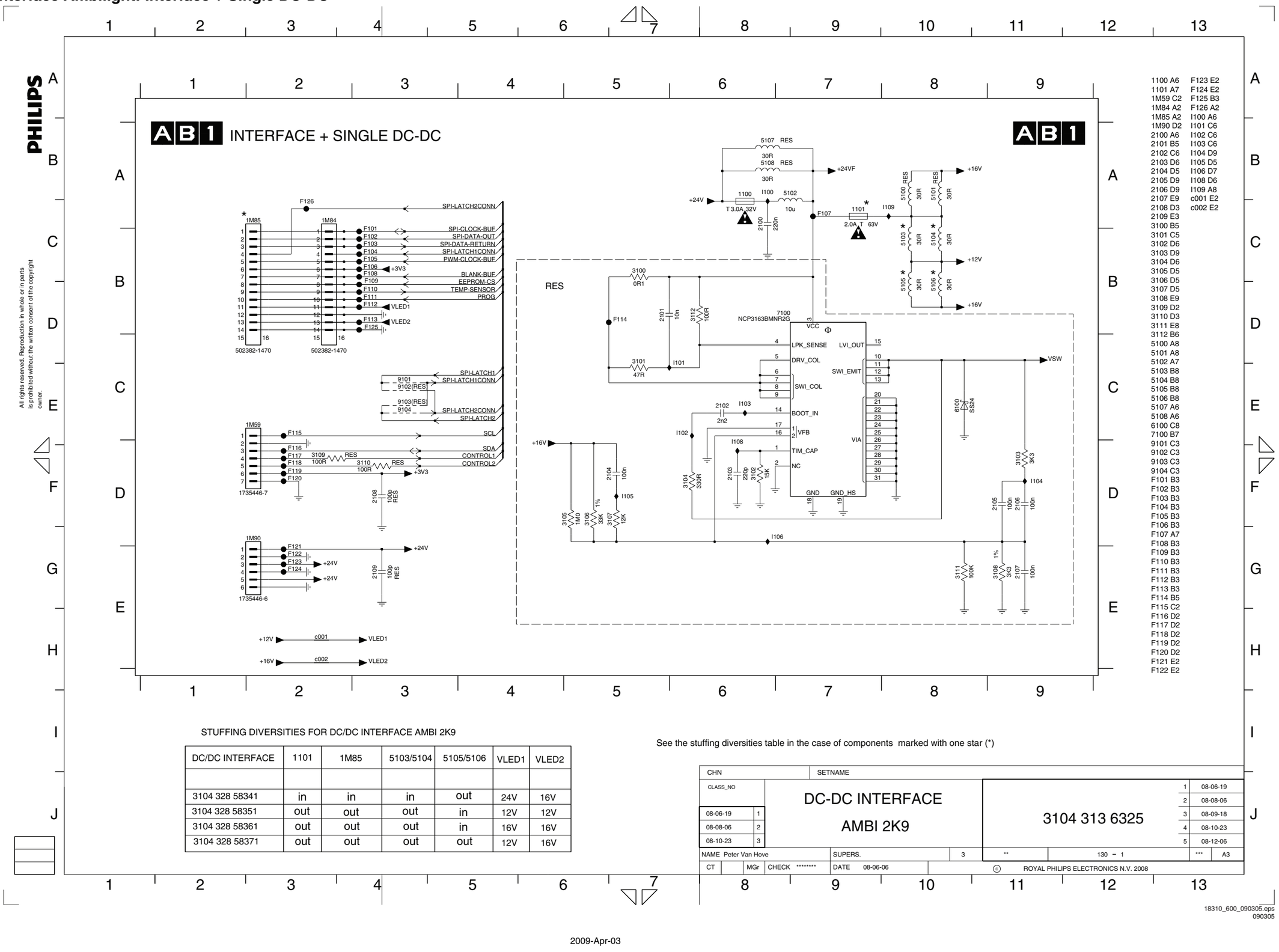
090401

10. Circuit Diagrams and PWB Layouts

Interface Ambilight: Interface + Single DC-DC



STUFFING DIVERSITIES FOR DC/DC INTERFACE AMBI 2K9

DC/DC INTERFACE	1101	1M85	5103/5104	5105/5106	VLED1	VLED2
3104 328 58341	in	in	in	out	24V	16V
3104 328 58351	out	out	out	in	12V	12V
3104 328 58361	out	out	out	in	16V	16V
3104 328 58371	out	out	out	out	12V	16V

See the stuffing diversities table in the case of components marked with one star (*)

CHN	SETNAME		
CLASS_NO	DC-DC INTERFACE AMBI 2K9	3104 313 6325	1 08-06-19
08-06-19 1			2 08-08-06
08-08-06 2			3 08-09-18
08-10-23 3			4 08-10-23
			5 08-12-06
NAME Peter Van Hove	SUPERS. 3	** 130 – 1	*** A3
CT MGr	CHECK ********	DATE 08-06-06	© ROYAL PHILIPS ELECTRONICS N.V. 2008

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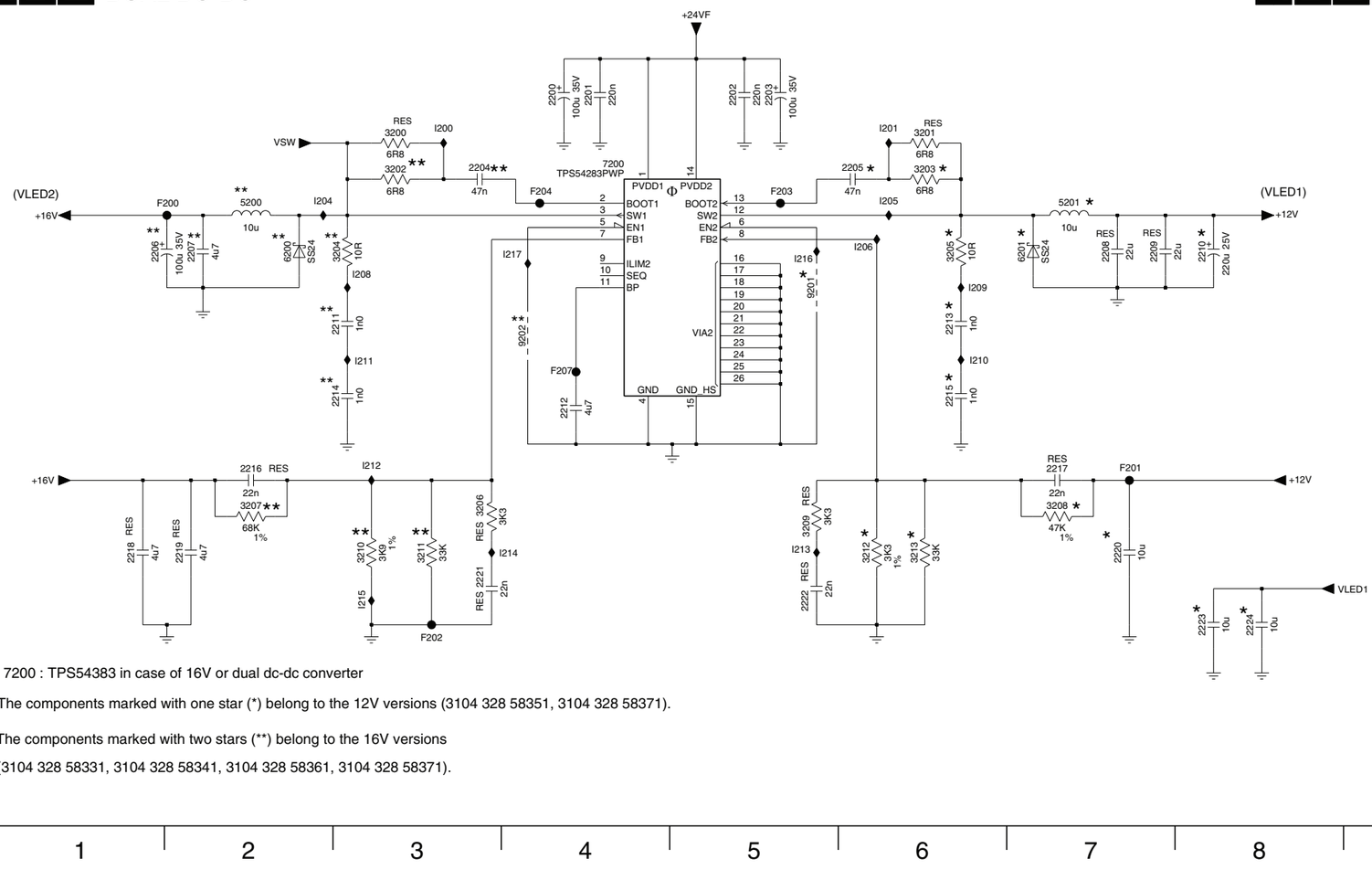
090305

Interface Ambilight: Dual DC-DC

PHILIPS

AB2 DUAL DC-DC



7200 : TPS54383 in case of 16V or dual dc-dc converter

The components marked with one star (*) belong to the 12V versions (3104 328 58351, 3104 328 58371).

The components marked with two stars (**) belong to the 16V versions
(3104 328 58331, 3104 328 58341, 3104 328 58361, 3104 328 58371).

2200 A4 I213 D5
2201 A4 I214 D4
2202 A5 I215 D3
2203 A5 I216 B5
2204 B3 I217 B4
2205 B6
2206 B1
2207 B2
2208 B7
2209 B7
2210 B8
2211 C3
2212 C4
2213 C6
2214 C3
2215 C6
2216 C2
2217 C7
2218 D1
2219 D2
2220 D7
2221 D3
2222 D5
2223 D8
2224 D8
3200 A3
3201 A6
3202 B3
3203 B6
3204 B3
3205 B6
3206 D3
3207 D2
3208 D7
3209 D5
3210 D3
3211 D3
3212 D6
3213 D6
5200 B2
5201 B7
6200 B2
6201 B7
7200 B4
9201 B5
9202 C4
F200 B2
F201 C7
F202 D3
F203 B5
F204 B4
F207 C4
I200 A3
I201 A6
I204 B2
I205 B6
I206 B6
I208 B3
I209 B6
I210 C6
I211 C3
I212 C3

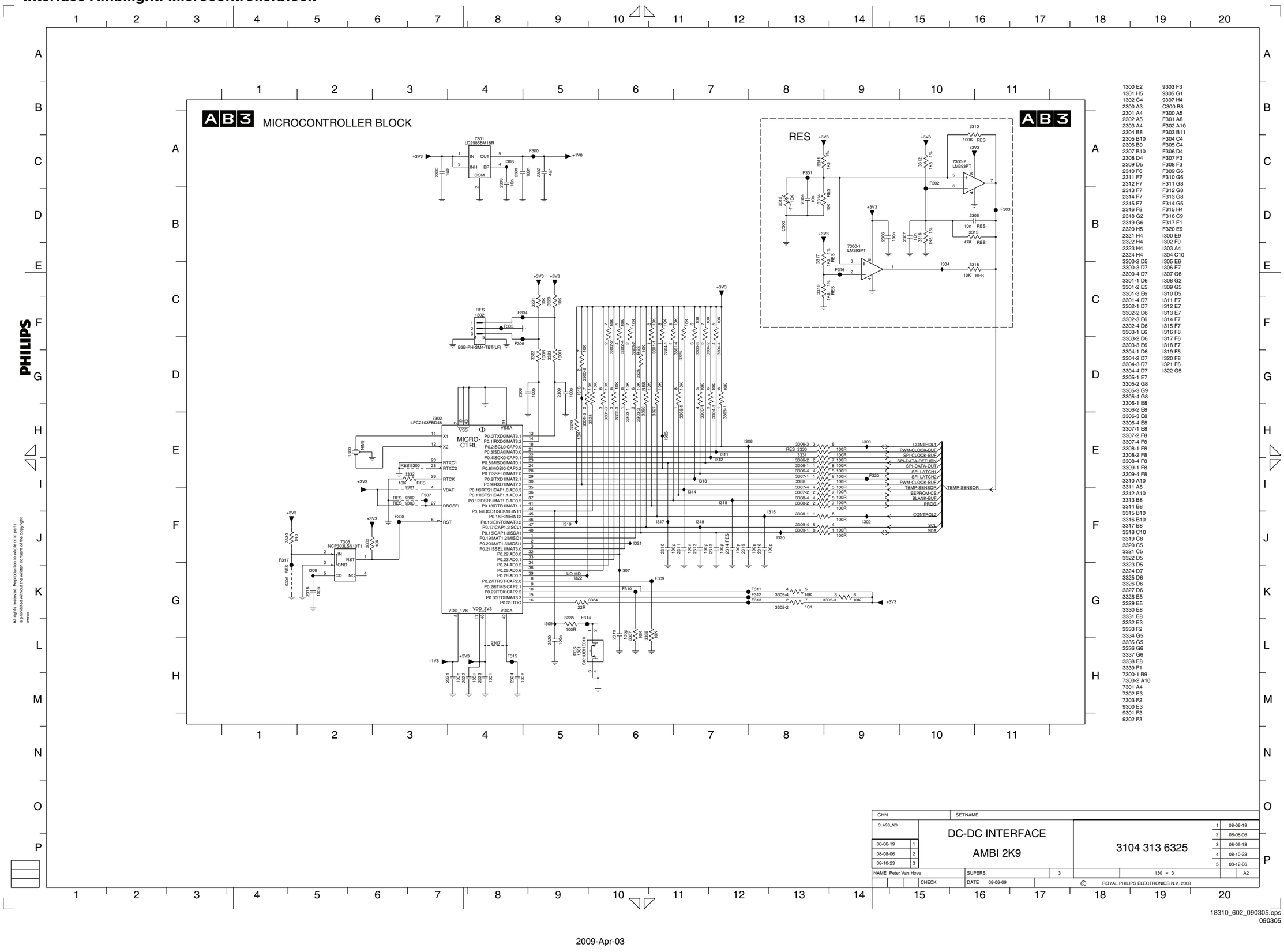
CHN		SETNAME	
CLASS_NO		DC-DC INTERFACE AMBI 2K9	3104 313 6325
08-06-19	1		
08-08-06	2		
08-10-23	3		
NAME Peter Van Hove		SUPERS. 3	130 – 2 A3
		CHECK DATE 08-06-09	© ROYAL PHILIPS ELECTRONICS N.V. 2008

1	08-06-19
2	08-08-06
3	08-09-18
4	08-10-23
5	08-12-06

18310_601_090305.eps
090305

Interface Ambilight: Microcontrollerblock

AB3 MICROCONTROLLER BLOCK



1300 E2
1301 H5
1302 C4
2300 A3
2301 A4
2302 A5
2303 A4
2304 B8
2305 B10
2306 B9
2307 B10
2308 D4
2309 D5
2310 F6
2311 F7
2312 F7
2313 F7
2314 F7
2315 F7
2316 F8
2318 G2
2319 G6
2320 H5
2321 H4
2322 H4
2323 H4
2324 H4
3300-2 D5
3300-3 D7
3300-4 D7
3301-1 D6
3301-2 E5
3301-3 E6
3301-4 D7
3302-1 D7
3302-2 D6
3302-3 E6
3302-4 D6
3303-1 E6
3303-2 D6
3303-3 E6
3304-1 D6
3304-2 D7
3304-3 D7
3304-4 D7
3305-1 E7
3305-2 G8
3305-3 G9
3305-4 G8
3306-1 E8
3306-2 E8
3306-3 E8
3306-4 E8
3307-1 E8
3307-2 F8
3307-4 F8
3308-1 F8
3308-2 F8
3308-4 F8
3309-1 F8
3309-4 F8
3310 A10
3311 A8
3312 A10
3313 B8
3314 B8
3315 B10
3316 B10
3317 B8
3318 C10
3319 C8
3320 C5
3321 C5
3322 D5
3323 D5
3324 D7
3325 D6
3326 D6
3327 D6
3328 E5
3329 E5
3330 E8
3331 E8
3332 E3
3333 F2
3334 G5
3335 G5
3336 G6
3337 G6
3338 E8
3339 F1
7300-1 B9
7300-2 A10
7301 A4
7302 E3
7303 F2
9300 E3
9301 F3
9302 F3
9303 F3
9305 G1
9307 H4
C300 B8
F300 A5
F301 A8
F302 A10
F303 B11
F304 C4
F305 C4
F306 D4
F307 F3
F308 F3
F309 G6
F310 G6
F311 G8
F312 G8
F313 G8
F314 G5
F315 H4
F316 C9
F317 F1
F320 E9
I300 E9
I302 F9
I303 A4
I304 C10
I305 E6
I306 E7
I307 G6
I308 G2
I309 G5
I310 D5
I311 E7
I312 E7
I313 E7
I314 F7
I315 F7
I316 F8
I318 F7
I319 F5
I320 F8
I321 F6
I322 G5

CHN		SETNAME	
CLASS_NO		DC-DC INTERFACE AMBI 2K9	3104 313 6325
08-06-19	1		
08-08-06	2		
08-10-23	3		
NAME Peter Van Hove		SUPERS.	3
CHECK		DATE 08-06-09	

1	08-06-19
2	08-08-06
3	08-09-18
4	08-10-23
5	08-12-06

130 – 3 A2

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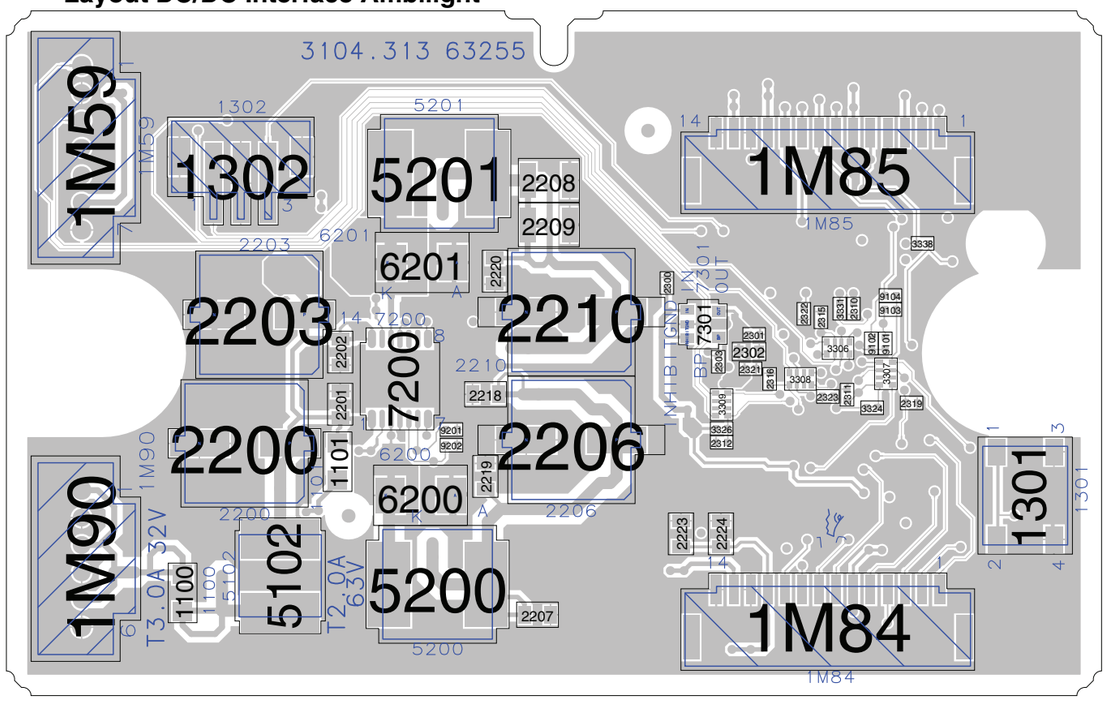
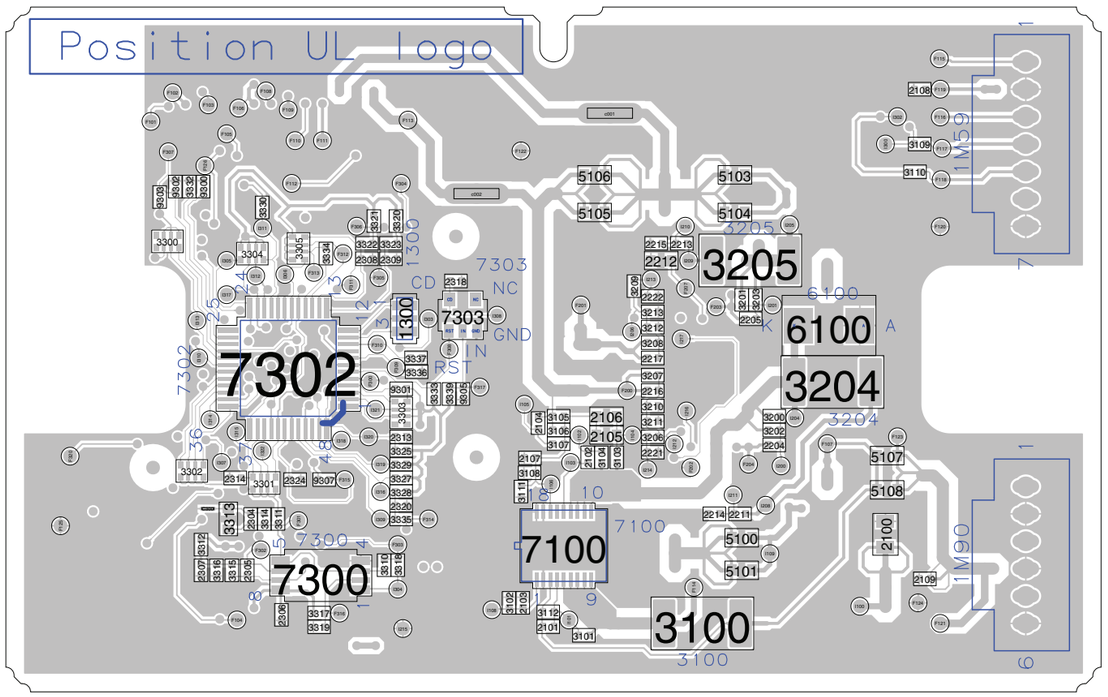
090305

Layout DC/DC Interface Ambilight





31043136325.5

18310_550_090309.eps
090309

2009-Apr-03

Personal Notes:

10000_012_090121.eps
090121

6 LED Low-Pow: Microcontroller Block Liteon

AL 1 MICROCONTROLLER BLOCK LITEON

AL 1

PHILIPS

1101 E4
1105 B5
1M1A C1
1M2A G1
1M83 A1
1M84 E1
2101 A6
2102 A7
2103 A8
2104 B7
2105 B10
2106 B13
2107 B11
2108 B12
2109 D7
2110 D7
2111 G4
2112 H7
2113 H7
2114 F9
2115 F9
2116 F9
2117 F9
2118 H8
2119 H6
2120 H6
2121 H6
2122 F9
2123 F10
2124 F10
2125 B3
2126 F10
2127 B1
2128 B1
2129 B2
2130 F2
2131 F10
3101-2 D7
3101-3 D9
3101-4 E9
3102-1 D9
3102-2 D9
3102-3 E9
3102-4 D9
3103-1 E9
3103-2 G10
3103-3 G11
3103-4 G10
3104-1 D8
3104-2 E8
3104-3 E8
3104-4 D9
3105-1 E9
3105-2 D8
3105-3 E8
3105-4 D8
3106-1 E8
3106-2 D8
3106-3 E8
3107 C7
3108 C7
3109 D7
3110 D7
3111 B10
3112 D9
3113 D8
3114 E8
3115 E8
3116 E8
3117 E7
3118 E5
3119 F4
3120 F5
3123 C11
3124-1 E11
3124-2 E11
3124-3 E11
3124-4 E11
3125-1 F11
3125-2 F11
3125-4 F11
3126-1 F11
3126-2 F11
3126-4 F11
3127-1 F11
3127-4 F11
3128 E11
3129 E11
3130 G8
3131 G7
3132 H8
3133 H8
3134 A13
3135 A11
3136 A12
3137 B11
3138 B13
3139 B12
3140 C11
3141 C13
3142 F11
7101 A7
7102 E6
7110 F4
7116-1 B11
7116-2 A12
9101 E5
9102 F5
9103 F5
9104 F5
9106 H8
9107 A5
9108 A5
9109 A5
9110 B5
9111 A3
9112 B2
9113 B3
9114 B2
9119 H6
9121 G4
C140 B10
F101 A8
F102 F5
F103 H7
F104 F5
F105 D7
F106 B12
F107 C7
F108 D7
F109 G3
F112 G8
F116 A10
F117 B13
F118 C11
F120 A1
F121 A1
F122 A1
F123 A1
F124 B1
F125 B1
F126 B1
F127 B1
F128 B1
F129 B1
F130 B1
F131 B1
F132 B1
F133 E1
F134 F1
F135 E1
F136 F1
F137 F1
F138 F1
F139 F1
I110 G8
I111 G8
I113 G10
I114 G10
I115 G10
I124 E11
I125 E11
I126 F11

CHN	SETNAME		
CLASS_NO	DRIVER 6LED LITEON 2K9	8204 000 8857	1 2008-06-10 2 2008-08-08 3 2008-10-27
2008-08-08 2 2008-10-27 3			
NAME Peter Van Hove	SUPERS. 3	130 ~ 1	A2
CHECK	DATE 2008-06-02	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

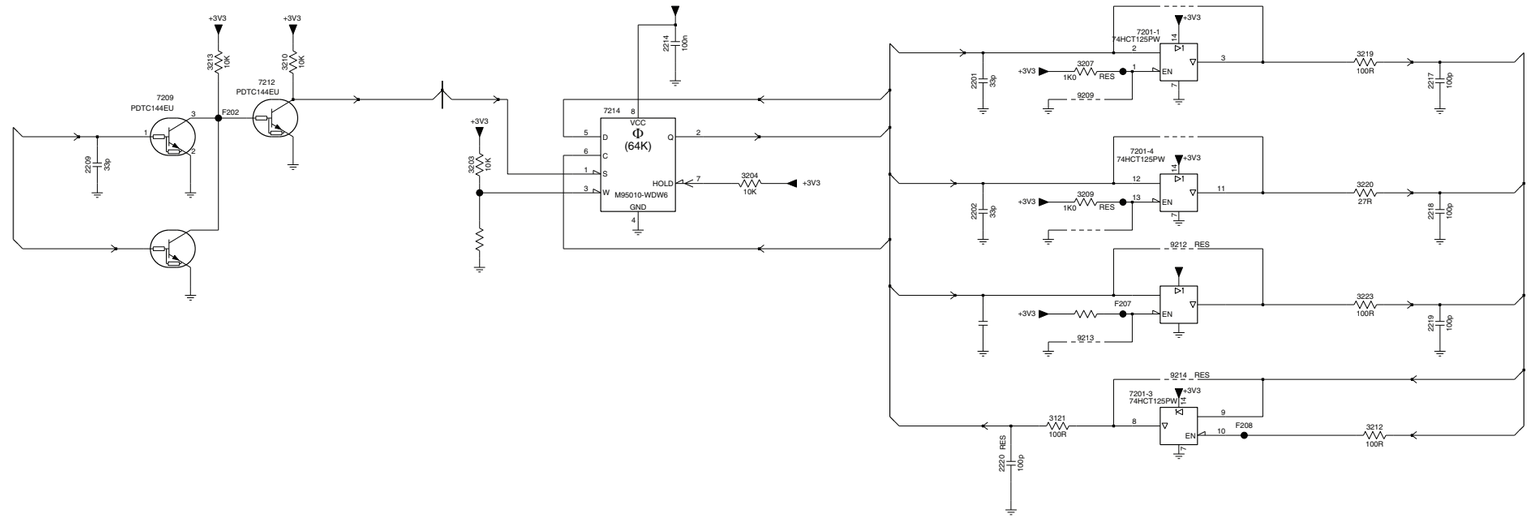
18310_610_090305.eps
090305

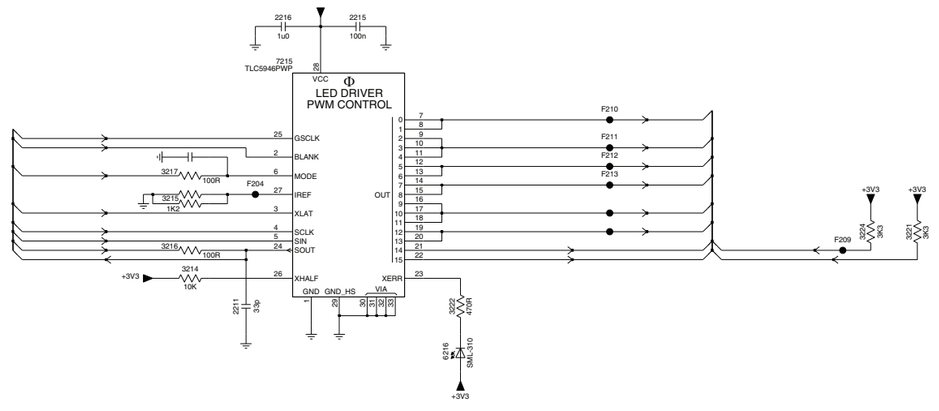
6 LED Low-Pow: Microcontroller Block Liteon

AL2 MICROCONTROLLER BLOCK LITEON

AL2

INPUT BUFFER



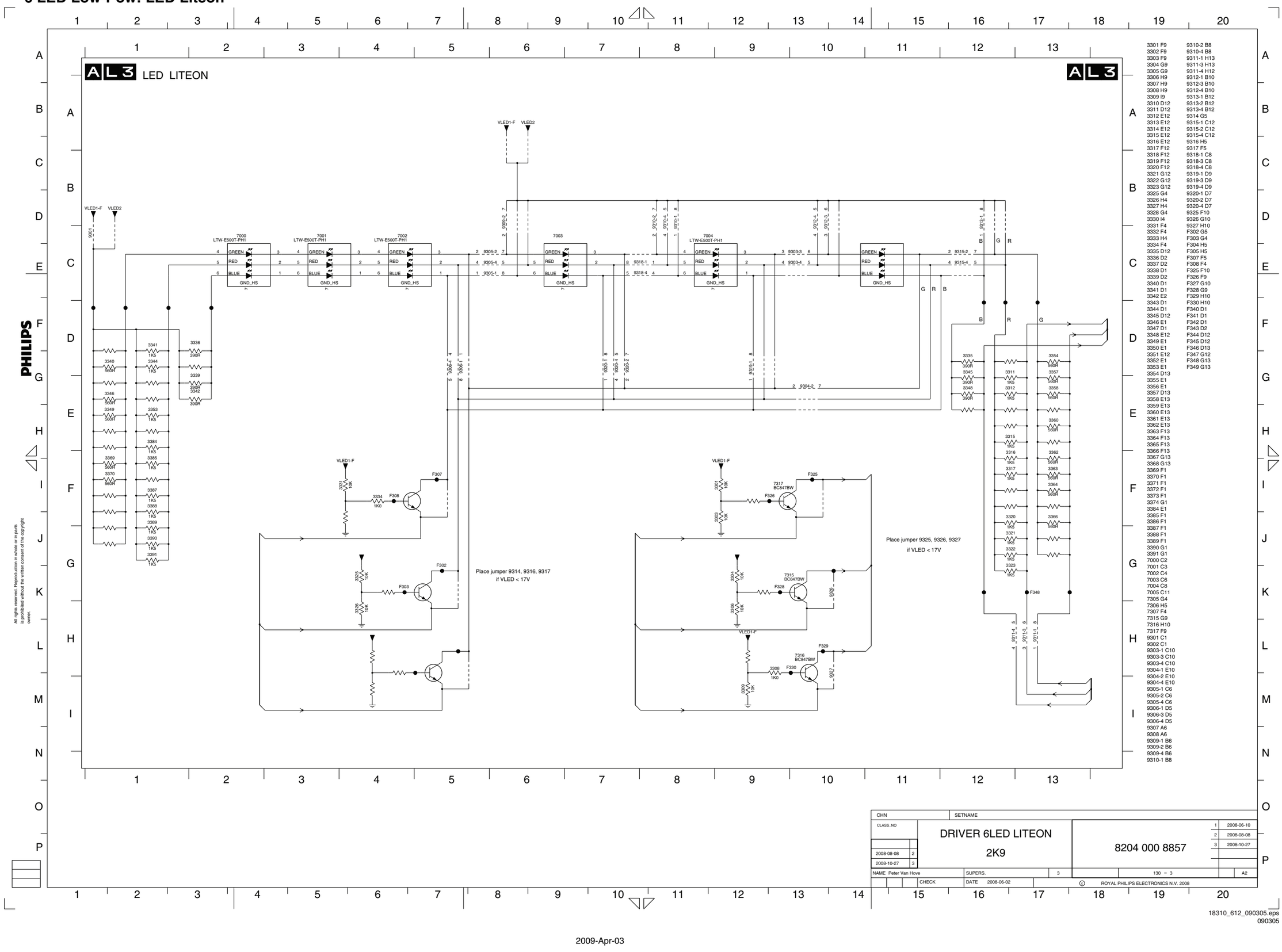


	DRIVER 6LED LITEON 2K9		8204 000 8857
2008-08-08	2		1
2008-10-27	3		
NAME	SUPERS.		–
CHECK	DATE	©	A2

2201 B8
2202 C8
2203 D8
2209 B2
2210 G6
2211 I6
2214 A6
2215 F7
2216 F7
2217 B12
2218 C12
2219 D12
2220 E9
3121 D9
3203 B5
3204 B7
3205 C5
3207 B9
3209 C9
3210 B3
3211 C9
3212 D11
3213 B3
3214 H6
3215 H6
3216 H6
3217 H6
3218 H6
3219 B11
3220 C11
3221 H11
3222 I8
3223 C11
3224 H11
6216 I8
7201-1 A10
7201-2 C10
7201-3 D10
7201-4 B10
7209 B2
7210 C2
7212 B3
7214 B6
7215 G7
9208 A10
9209 B9
9210 B10
9211 C9
9212 C10
9213 D9
9214 D10
F202 B3
F203 C5
F204 H6
F205 B10
F206 C10
F207 C10
F208 D10
F209 H11
F210 G9
F211 G9
F212 G9
F213 H9
F214 H9
F215 H9

18310_611_090305.eps
090305

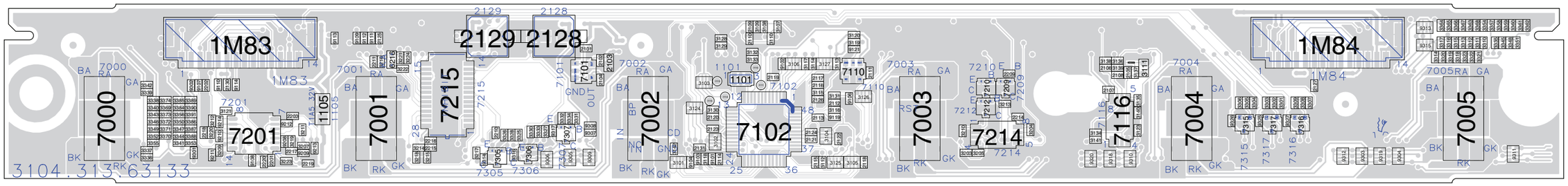
6 LED Low-Pow: LED Liteon



CHN	SETNAME		
CLASS_NO	DRIVER 6LED LITEON 2K9	8204 000 8857	1 2008-06-10
2008-08-08 2			2 2008-08-08
2008-10-27 3			3 2008-10-27
NAME Peter Van Hove	SUPERS. 3	130 ~ 3	A2
CHECK	DATE 2008-06-02	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

18310_612_090305.eps
090305

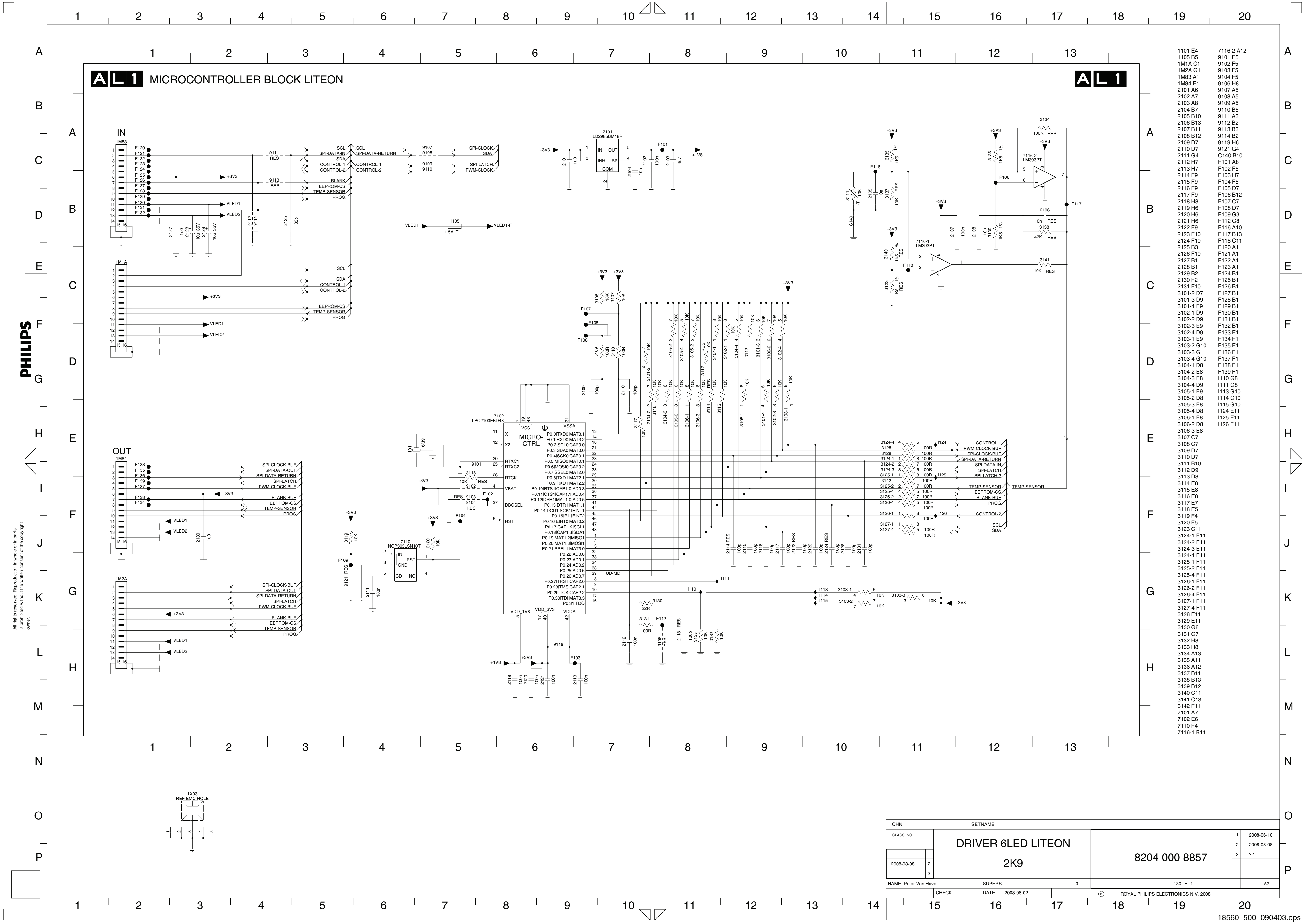
Layout 6 LED Low-Pow



3104 313 6313.3

18310_551_090309
090309

8 LED Low-Pow: Microcontroller Block Liteon



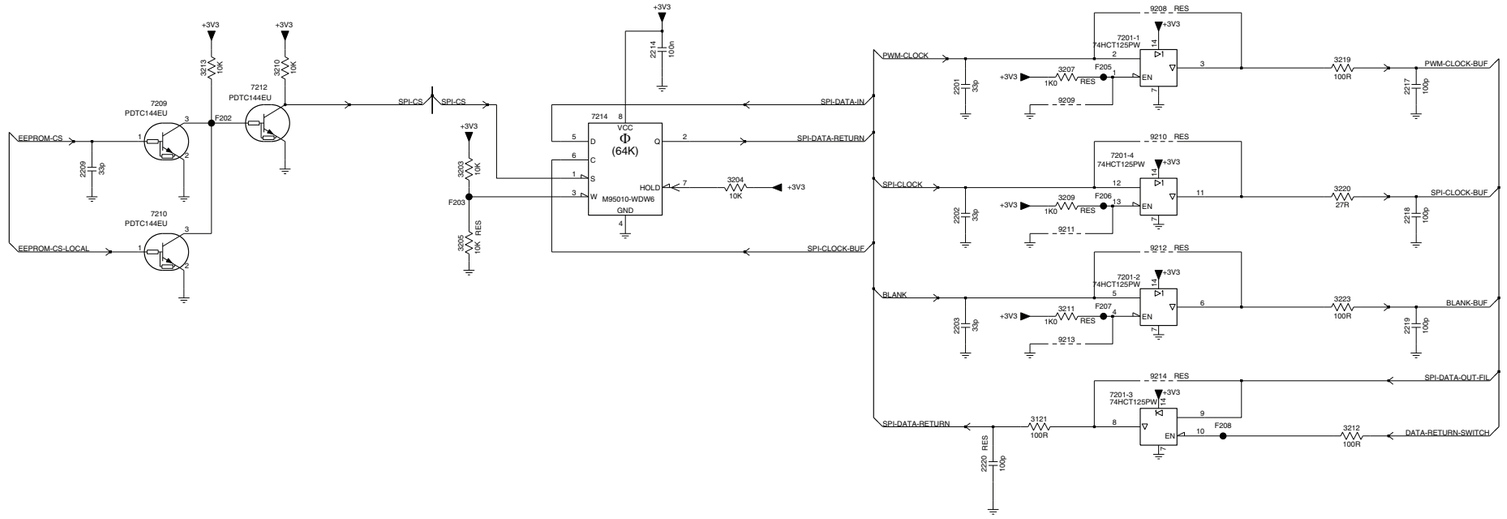
18560_500_090403.eps
090403

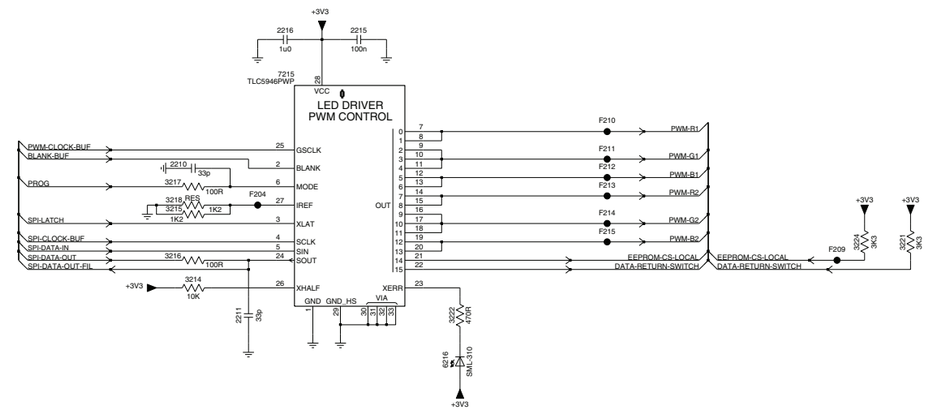
8 LED Low-Pow: Microcontroller Block Liteon

AL2 MICROCONTROLLER BLOCK LITEON

AL2

INPUT BUFFER



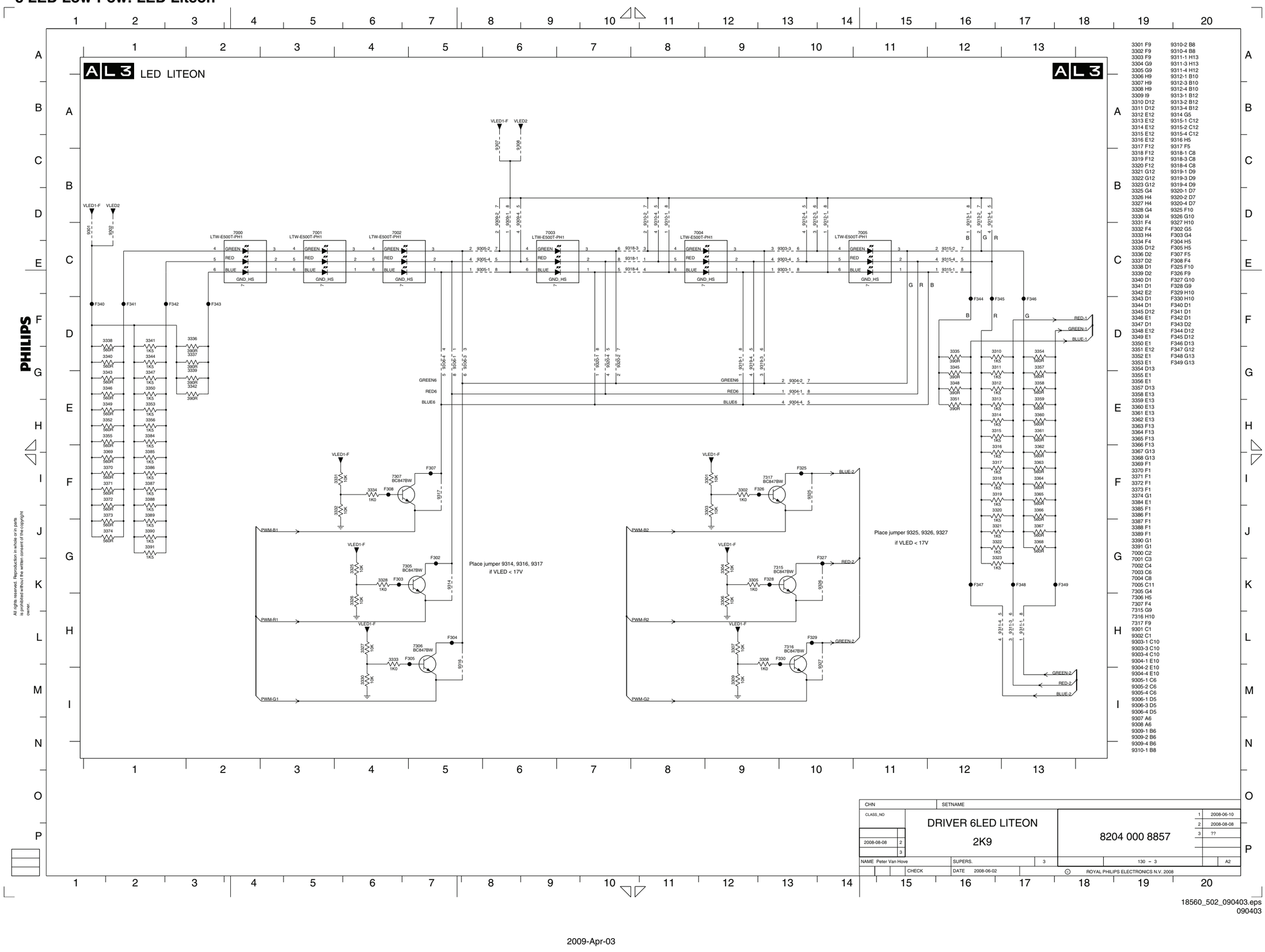


CHN	SETNAME		
CLASS_NO	DRIVER 6LED LITEON 2K9	8204 000 8857	1 2008-06-10; 2 2008-08-08; 3 ??
2008-08-08 2 3			
NAME Peter Van Hove	SUPERS. 3	130 – 2	A2
	CHECK DATE 2008-06-02	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

2201 B8
2202 C8
2203 D8
2209 B2
2210 G6
2211 I6
2214 A6
2215 F7
2216 F7
2217 B12
2218 C12
2219 D12
2220 E9
3121 D9
3203 B5
3204 B7
3205 C5
3207 B9
3209 C9
3210 B3
3211 C9
3212 D11
3213 B3
3214 H6
3215 H6
3216 H6
3217 H6
3218 H6
3219 B11
3220 C11
3221 H11
3222 I8
3223 C11
3224 H11
6216 I8
7201-1 A10
7201-2 C10
7201-3 D10
7201-4 B10
7209 B2
7210 C2
7212 B3
7214 B6
7215 G7
9208 A10
9209 B9
9210 B10
9211 C9
9212 C10
9213 D9
9214 D10
F202 B3
F203 C5
F204 H6
F205 B10
F206 C10
F207 C10
F208 D10
F209 H11
F210 G9
F211 G9
F212 G9
F213 H9
F214 H9
F215 H9

18560_501_090403.eps
090403

8 LED Low-Pow: LED Liteon



3301 F9	9310-2 B8
3302 F9	9310-4 B8
3303 F9	9311-1 H13
3304 G9	9311-3 H13
3305 G9	9311-4 H12
3306 H9	9312-1 B10
3307 H9	9312-3 B10
3308 H9	9312-4 B10
3309 I9	9313-1 B12
3310 D12	9313-2 B12
3311 D12	9313-4 B12
3312 E12	9314 G5
3313 E12	9315-1 C12
3314 E12	9315-2 C12
3315 E12	9315-4 C12
3316 E12	9316 H5
3317 F12	9317 F5
3318 F12	9318-1 C8
3319 F12	9318-3 C8
3320 F12	9318-4 C8
3321 G12	9319-1 D9
3322 G12	9319-3 D9
3323 G12	9319-4 D9
3325 G4	9320-1 D7
3326 H4	9320-2 D7
3327 H4	9320-4 D7
3328 G4	9325 F10
3330 I4	9326 G10
3331 F4	9327 H10
3332 F4	F302 G5
3333 H4	F303 G4
3334 F4	F304 H5
3335 D12	F305 H5
3336 D2	F307 F5
3337 D2	F308 F4
3338 D1	F325 F10
3339 D2	F326 F9
3340 D1	F327 G10
3341 D1	F328 G9
3342 E2	F329 H10
3343 D1	F330 H10
3344 D1	F340 D1
3345 D12	F341 D1
3346 E1	F342 D1
3347 D1	F343 D2
3348 E12	F344 D12
3349 E1	F345 D12
3350 E1	F346 D13
3351 E12	F347 G12
3352 E1	F348 G13
3353 E1	F349 G13
3354 D13	
3355 E1	
3356 E1	
3357 D13	
3358 E13	
3359 E13	
3360 E13	
3361 E13	
3362 E13	
3363 F13	
3364 F13	
3365 F13	
3366 F13	
3367 G13	
3368 G13	
3369 F1	
3370 F1	
3371 F1	
3372 F1	
3373 F1	
3374 G1	
3384 E1	
3385 F1	
3386 F1	
3387 F1	
3388 F1	
3389 F1	
3390 G1	
3391 G1	
7000 C2	
7001 C3	
7002 C4	
7003 C6	
7004 C8	
7005 C11	
7305 G4	
7306 H5	
7307 F4	
7315 G9	
7316 H10	
7317 F9	
9301 C1	
9302 C1	
9303-1 C10	
9303-3 C10	
9303-4 C10	
9304-1 E10	
9304-2 E10	
9304-4 E10	
9305-1 C6	
9305-2 C6	
9305-4 C6	
9306-1 D5	
9306-3 D5	
9306-4 D5	
9307 A6	
9308 A6	
9309-1 B6	
9309-2 B6	
9309-4 B6	
9310-1 B8	

CHN	SETNAME		
CLASS_NO	DRIVER 6LED LITEON 2K9	8204 000 8857	1 2008-06-10
2008-08-08 2			2 2008-08-08
3			3 ??
NAME Peter Van Hove	SUPERS. 3	130 – 3	A2
CHECK	DATE 2008-06-02	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

18560_502_090403.eps
090403

8 LED Low-Pow: LED Drive Liteon

AL 4 LED DRIVE

AL 4

1M3A E2
1M85 D2
3536 E9
3537 E9
3538 E7
3539 E9
3540 E7
3541 E8
3542 E9
3543 E7
3544 E8
3546 E7
3547 E8
3549 F7
3550 E8
3552 F7
3553 F8
3555 F7
3556 F8
3569 F7
3570 F7
3571 G7
3572 G7
3573 G7
3574 G7
3584 F8
3585 F8
3586 F8
3587 G8
3588 G8
3589 G8
3590 G8
3591 G8
7006 A5
7007 A7

7006 LTW-E500T-PH1
7007 LTW-E500T-PH1

GREEN-1
RED-1
BLUE-1
GREEN
RED
BLUE
GND_HS

1M85
1M3A
SPI-CLOCK-BUF
SPI-DATA-OUT
SPI-DATA-RETURN
SPI-LATCH
PWM-CLOCK-BUF
+3V3
BLANK-BUF
EEPROM-CS
TEMP-SENSOR
PROG
VLED1
VLED2

GREEN-2
RED-2
BLUE-2

3538 560R
3540 560R
3543 560R
3546 560R
3549 560R
3552 560R
3555 560R
3569 560R
3570 560R
3571 560R
3572 560R
3573 560R
3574 560R

3541 1K5
3544 1K5
3547 1K5
3550 1K5
3553 1K5
3556 1K5
3584 1K5
3585 1K5
3586 1K5
3587 1K5
3588 1K5
3589 1K5
3590 1K5
3591 1K5

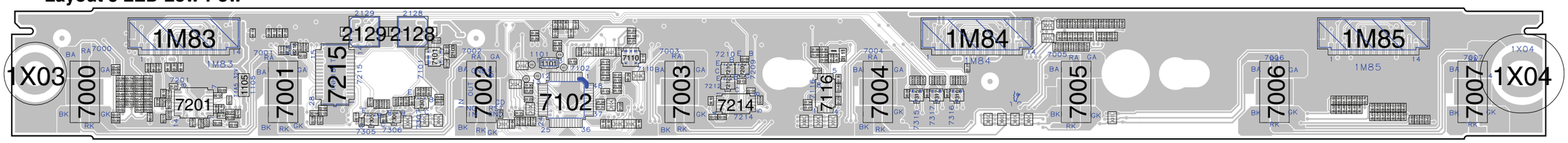
3536 390R
3537 390R
3539 390R
3542 390R

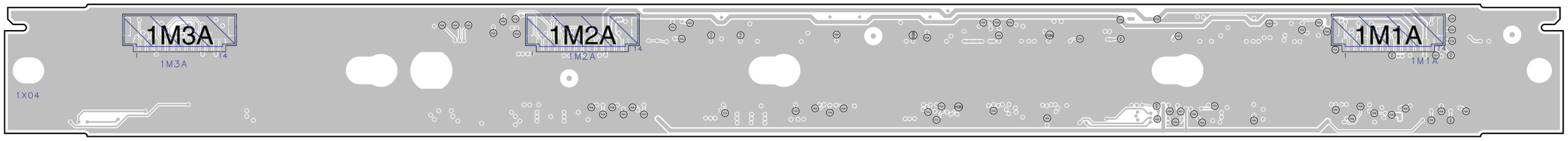
1X04
REF EMC HOLE

CHN	SETNAME		
CLASS_NO	2LED + CONNECTOR 2K9	8204 000 8874	
2008-05-23 1			1 2008-05-23
2008-08-08 2			2 2008-08-08
2008-10-31 3			3 0
NAME Peter Van Hove	SUPERS. 1	130 – 1	A2
	CHECK DATE 2008-04-20	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

18560_503_090403.eps
090403

Layout 8 LED Low-Pow





31043136314.3

18490_550_090326.eps
090326

10 LED Low-Pow: Microcontroller Block Liteon

AL 1 MICROCONTROLLER BLOCK LITEON

AL 1

PHILIPS

IN

OUT

7101 LD2985BM18R

7102 LPC2103FBD48 MICRO. CTRL

7110 NCP303LSN10T1

7116-1 LM393PT

7116-2 LM393PT

1X03 REF EMC HOLE

1101 E4
1105 B5
1M1A C1
1M2A G1
1M83 A1
1M84 E1
2101 A6
2102 A7
2103 A8
2104 B7
2105 B10
2106 B13
2107 B11
2108 B12
2109 D7
2110 D7
2111 G4
2112 H7
2113 H7
2114 F9
2115 F9
2116 F9
2117 F9
2118 H8
2119 H6
2120 H6
2121 H6
2122 F9
2123 F10
2124 F10
2125 B3
2126 F10
2127 B1
2128 B1
2129 B2
2130 F2
2131 F10
3101-2 D7
3101-3 D9
3101-4 E9
3102-1 D9
3102-2 D9
3102-3 E9
3102-4 D9
3103-1 E9
3103-2 G10
3103-3 G11
3103-4 G10
3104-1 D8
3104-2 E8
3104-3 E8
3104-4 D9
3105-1 E9
3105-2 D8
3105-3 E8
3105-4 D8
3106-1 E8
3106-2 D8
3106-3 E8
3107 C7
3108 C7
3109 D7
3110 D7
3111 B10
3112 D9
3113 D8
3114 E8
3115 E8
3116 E8
3117 E7
3118 E5
3119 F4
3120 F5
3123 C11
3124-1 E11
3124-2 E11
3124-3 E11
3124-4 E11
3125-1 F11
3125-2 F11
3125-4 F11
3126-1 F11
3126-2 F11
3126-4 F11
3127-1 F11
3127-4 F11
3128 E11
3129 E11
3130 G8
3131 G7
3132 H8
3133 H8
3134 A13
3135 A11
3136 A12
3137 B11
3138 B13
3139 B12
3140 C11
3141 C13
3142 F11
7101 A7
7102 E6
7110 F4
7116-1 B11
7116-2 A12
9101 E5
9102 F5
9103 F5
9104 F5
9106 H8
9107 A5
9108 A5
9109 A5
9110 B5
9111 A3
9112 B2
9113 B3
9114 B2
9119 H6
9121 G4
C140 B10
F101 A8
F102 F5
F103 H7
F104 F5
F105 D7
F106 B12
F107 C7
F108 D7
F109 G3
F112 G8
F116 A10
F117 B13
F118 C11
F120 A1
F121 A1
F122 A1
F123 A1
F124 B1
F125 B1
F126 B1
F127 B1
F128 B1
F129 B1
F130 B1
F131 B1
F132 B1
F133 E1
F134 F1
F135 E1
F136 F1
F137 F1
F138 F1
F139 F1
I110 G8
I111 G8
I113 G10
I114 G10
I115 G10
I124 E11
I125 E11
I126 F11

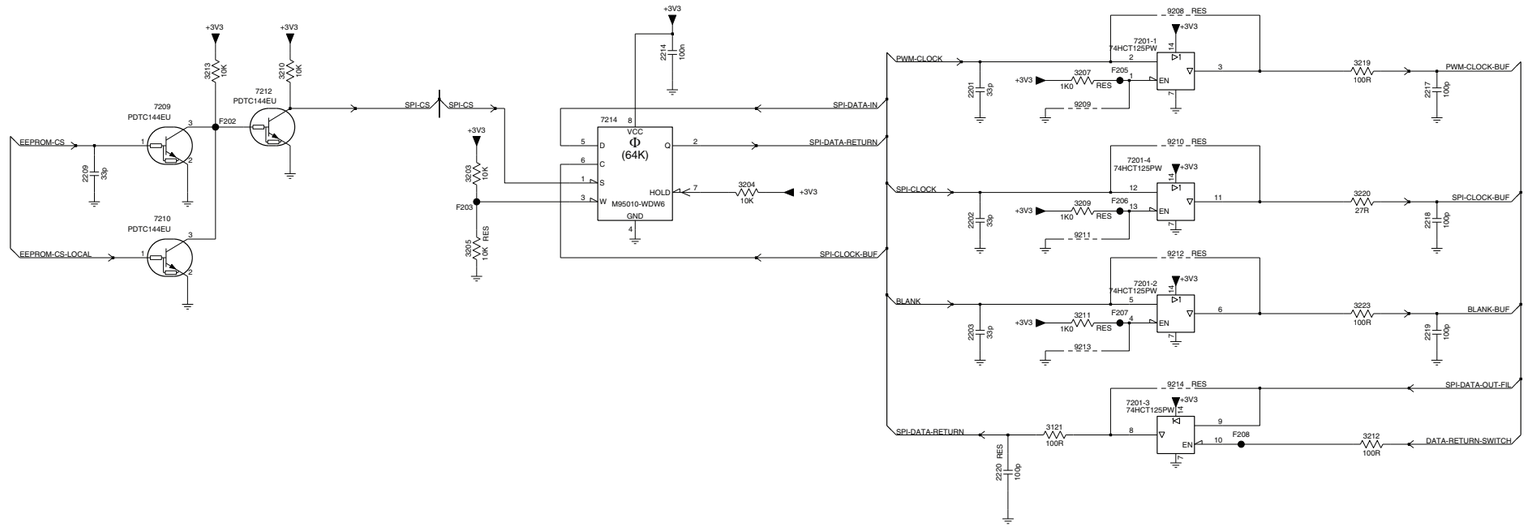
CHN	SETNAME		
CLASS_NO	DRIVER 6LED LITEON 2K9	8204 000 8857	1 2008-06-10; 2 2008-08-08; 3 ??
2008-08-08 2 3			
NAME Peter Van Hove	SUPERS. 3	130 - 1	A2
CHECK	DATE 2008-06-02		

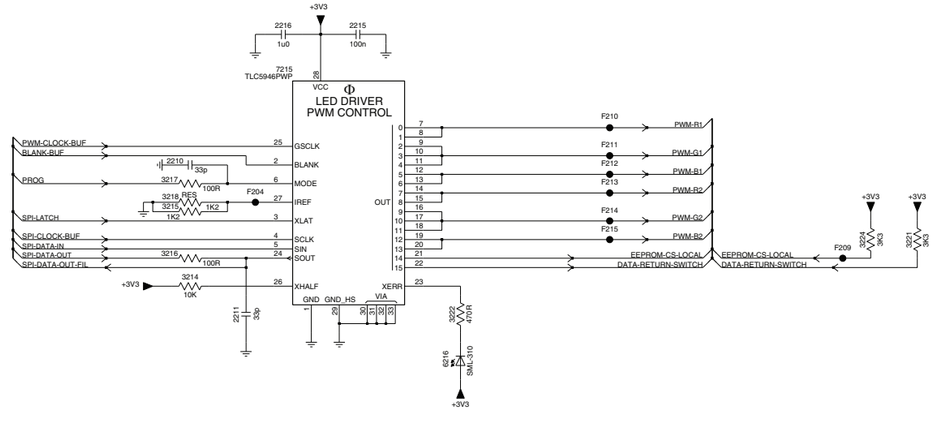
10 LED Low-Pow: Microcontroller Block Liteon

AL2 MICROCONTROLLER BLOCK LITEON

AL2

INPUT BUFFER

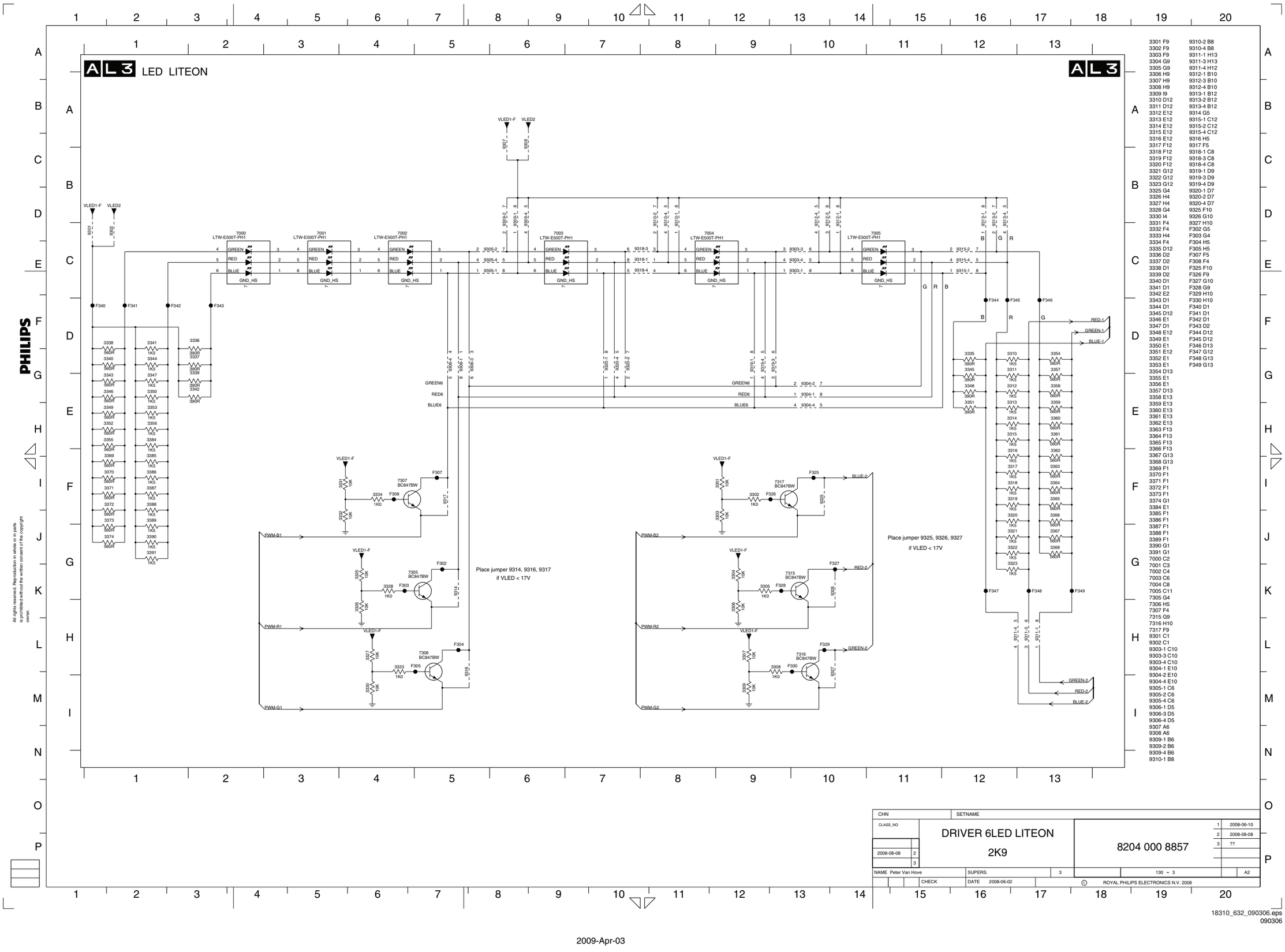




CHN	SETNAME		
CLASS_NO	DRIVER 6LED LITEON 2K9	8204 000 8857	1 2008-06-10
2008-08-08 2			2 2008-08-08
3			3 ??
NAME Peter Van Hove	SUPERS. 3	130 – 2	A2
CHECK	DATE 2008-06-02	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

18310_631_090306.eps
090306

10 LED Low-Pow: LED Liteon



CHN	SETNAME		
CLASS_NO	DRIVER 6LED LITEON 2K9	8204 000 8857	1 2008-06-10
2008-08-08 2			2 2008-08-08
3			3 ??
NAME Peter Van Hove	SUPERS. 3	130 ~ 3	A2
CHECK	DATE 2008-06-02	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

18310_632_090306.eps
090306

10 LED Low-Pow: LED Drive Liteon

AL4 LED DRIVE AL4

7006 LTW-E500T-PH1
7007 LTW-E500T-PH1
7008 LTW-E500T-PH1
7009 LTW-E500T-PH1

GREEN-1
RED-1
BLUE-1
GREEN
RED
BLUE
GND_HS

1M85
1M3A
SPI-CLOCK-BUF
SPI-DATA-OUT
SPI-DATA-RETURN
SPI-LATCH
PWM-CLOCK-BUF
+3V3
BLANK-BUF
EEPROM-CS
TEMP-SENSOR
PROG
VLED1
VLED2

GREEN-2
RED-2
BLUE-2

3538 560R
3540 560R
3543 560R
3546 560R
3549 560R
3552 560R
3555 560R
3569 560R
3570 560R
3571 560R
3572 560R
3573 560R
3574 560R

3541 1K5
3544 1K5
3547 1K5
3550 1K5
3553 1K5
3556 1K5
3584 1K5
3585 1K5
3586 1K5
3587 1K5
3588 1K5
3589 1K5
3590 1K5
3591 1K5

3536 390R
3537 390R
3539 390R
3542 390R

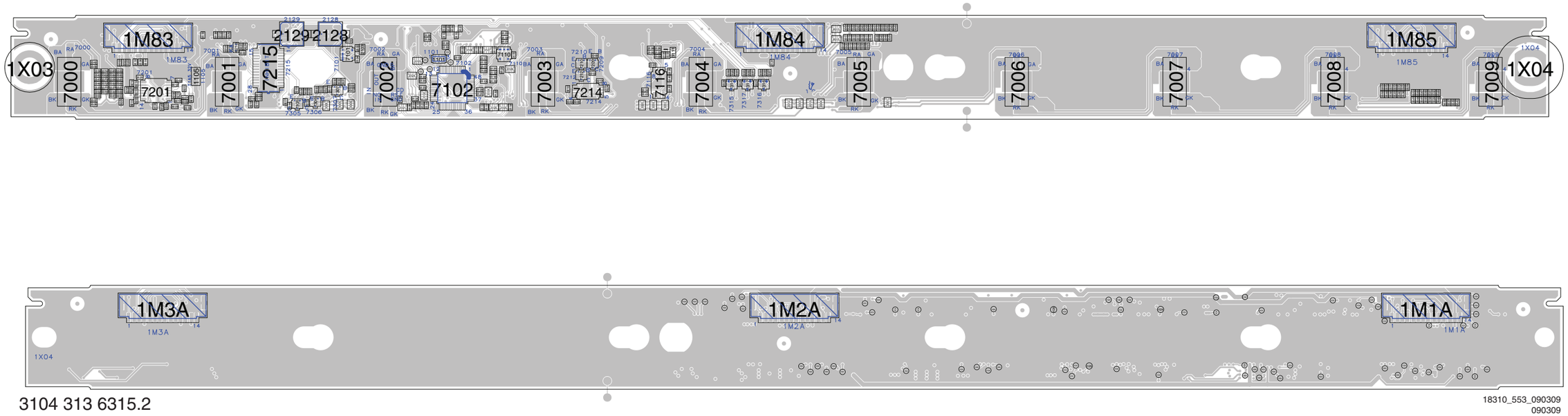
1M3A E2
1M85 D2
3536 E9
3537 E9
3538 E7
3539 E9
3540 E7
3541 E8
3542 E9
3543 E7
3544 E8
3546 E7
3547 E8
3549 F7
3550 E8
3552 F7
3553 F8
3555 F7
3556 F8
3569 F7
3570 F7
3571 G7
3572 G7
3573 G7
3574 G7
3584 F8
3585 F8
3586 F8
3587 G8
3588 G8
3589 G8
3590 G8
3591 G8
7006 A2
7007 A4
7008 A5
7009 A6

1X04 REF EMC HOLE

CHN	SETNAME		
CLASS_NO	4 LED + CONNECTOR LITEON 2K9	8204 000 8897	1 2008-08-14; 2 2008-10-24; 3 2008-10-31
2008-08-14 2; 2008-10-31 3			
NAME Peter Van Hove	SUPERS. 1	130 - 1	A2
CHECK	DATE 2008-07-29	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

18310_633_090306.eps
090306

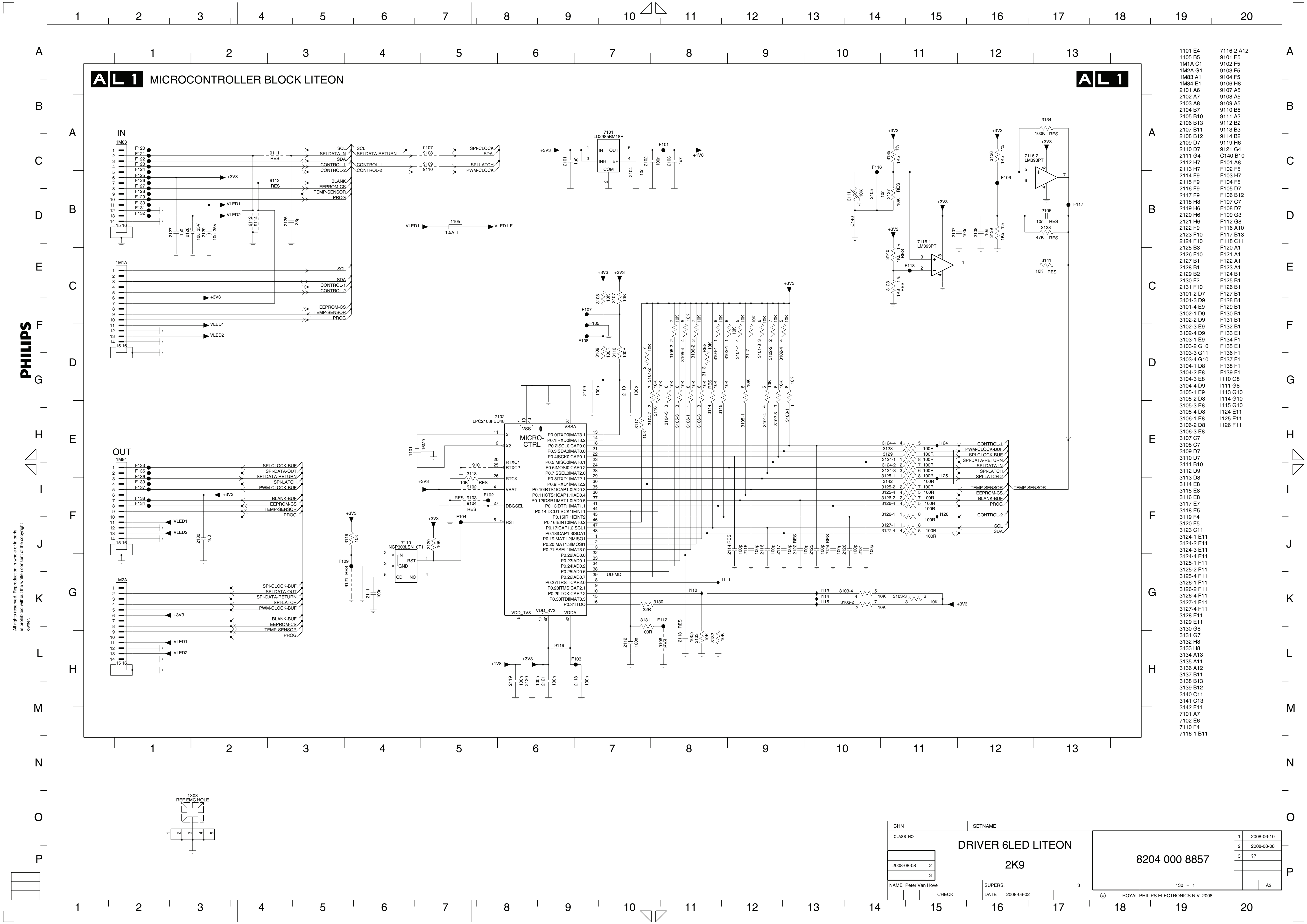
Layout 10 LED Low-Pow



3104 313 6315.2

18310_553_090309
090309

12 LED Low-Pow: Microcontroller Block Liteon



18560_510_090403.eps
090403

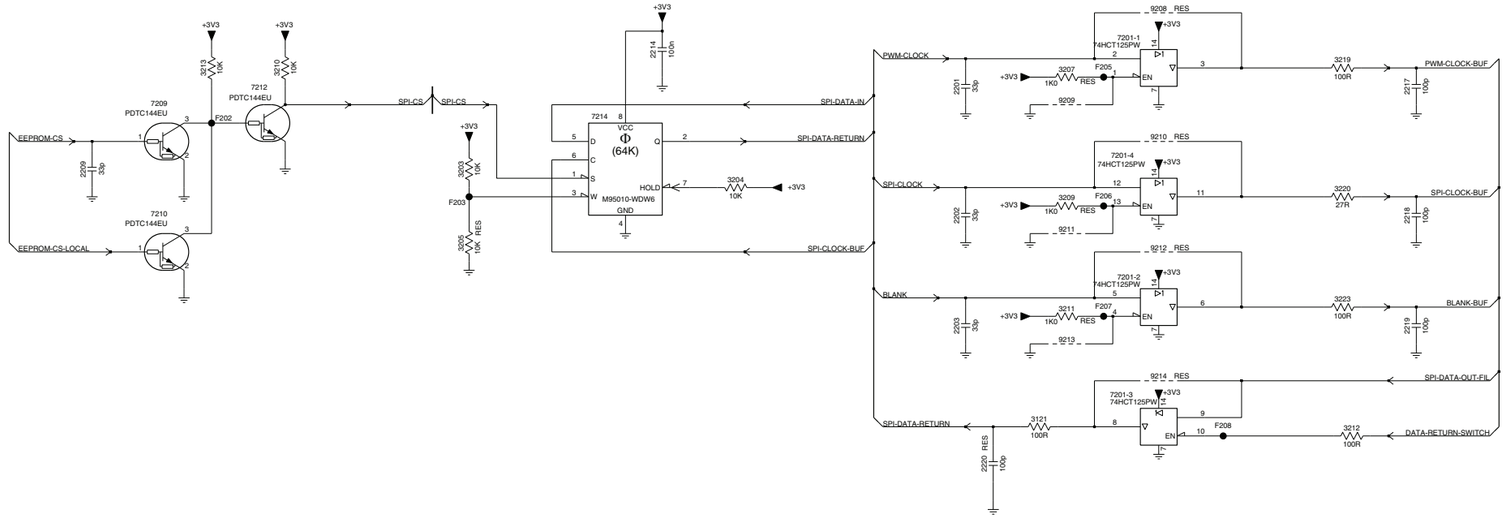
12 LED Low-Pow: Microcontroller Block Liteon

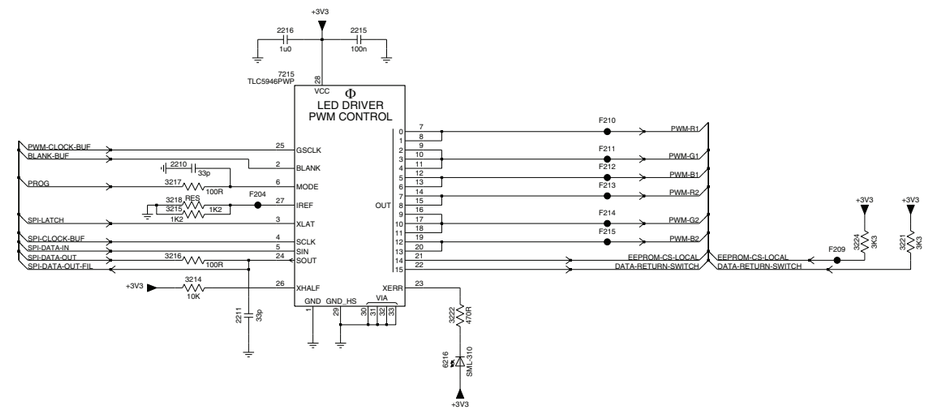
AL2 MICROCONTROLLER BLOCK LITEON

AL2

INPUT BUFFER

PHILIPS



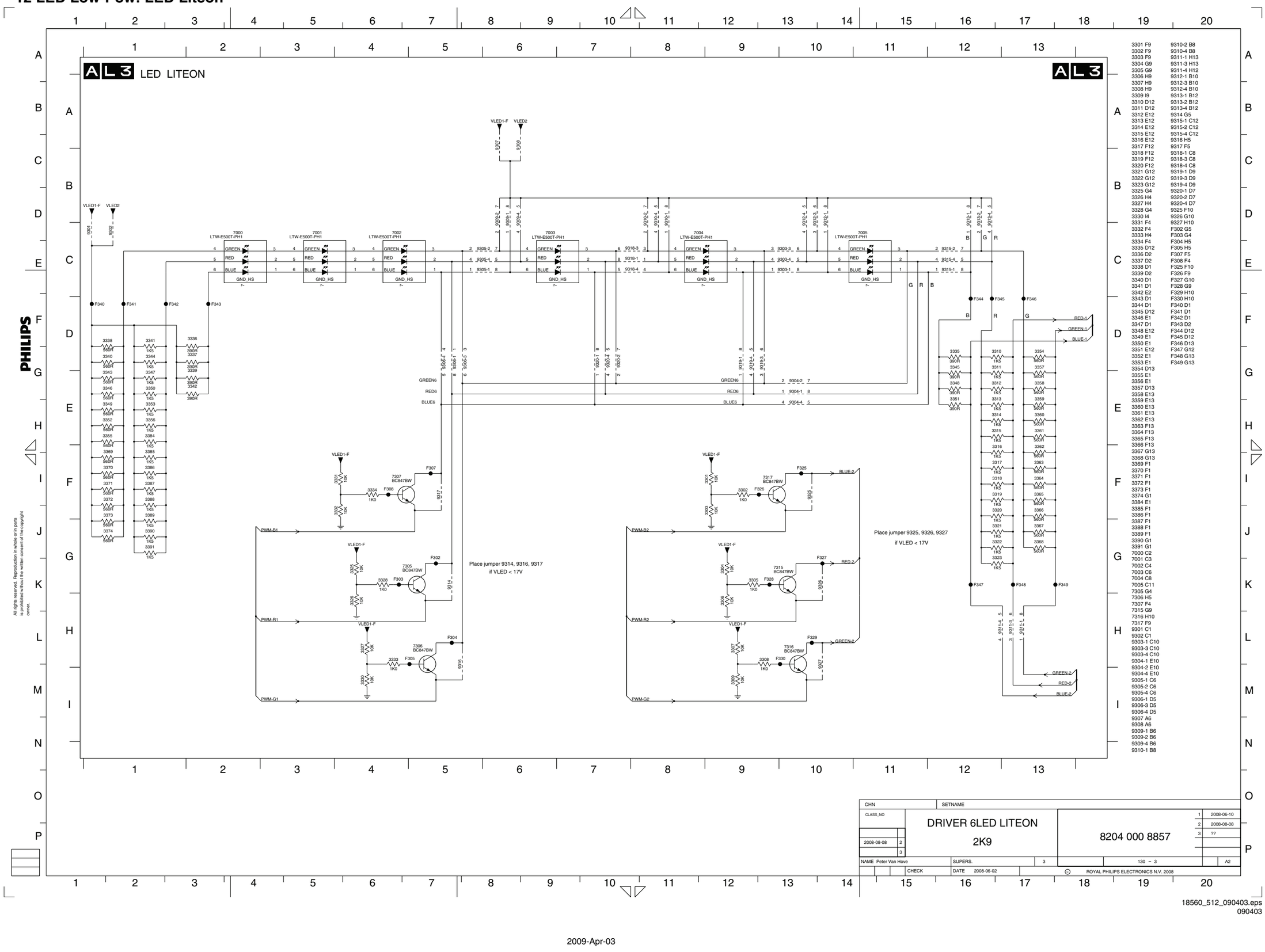


2201 B8
2202 C8
2203 D8
2209 B2
2210 G6
2211 I6
2214 A6
2215 F7
2216 F7
2217 B12
2218 C12
2219 D12
2220 E9
3121 D9
3203 B5
3204 B7
3205 C5
3207 B9
3209 C9
3210 B3
3211 C9
3212 D11
3213 B3
3214 H6
3215 H6
3216 H6
3217 H6
3218 H6
3219 B11
3220 C11
3221 H11
3222 I8
3223 C11
3224 H11
6216 I8
7201-1 A10
7201-2 C10
7201-3 D10
7201-4 B10
7209 B2
7210 C2
7212 B3
7214 B6
7215 G7
9208 A10
9209 B9
9210 B10
9211 C9
9212 C10
9213 D9
9214 D10
F202 B3
F203 C5
F204 H6
F205 B10
F206 C10
F207 C10
F208 D10
F209 H11
F210 G9
F211 G9
F212 G9
F213 H9
F214 H9
F215 H9

CHN	SETNAME		
CLASS_NO	DRIVER 6LED LITEON 2K9	8204 000 8857	1 2008-06-10
2008-08-08 2			2 2008-08-08
3			3 ??
NAME Peter Van Hove	SUPERS. 3	130 – 2	A2
CHECK	DATE 2008-06-02	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

18560_511_090403.eps
090403

12 LED Low-Pow: LED Liteon



18560_512_090403.eps
090403

12 LED Low-Pow: LED Drive

AL4 LED DRIVE

AL4

1M3A F2
1M85 D2
3536 E11
3537 E11
3538 E9
3539 F11
3540 F9
3541 E10
3542 F11
3543 F9
3544 F10
3546 F9
3547 F10
3549 F9
3550 F10
3552 F9
3553 F10
3555 G10
3556 F10
3569 G9
3570 G9
3571 G9
3572 G9
3573 H9
3574 H9
3584 G10
3585 G10
3586 G10
3587 G10
3588 G10
3589 H10
3590 H10
3591 H10
7006 B2
7007 B3
7008 B5
7009 B6
7010 B7
7011 B8

7006 LTW-E500T-PH1
7007 LTW-E500T-PH1
7008 LTW-E500T-PH1
7009 LTW-E500T-PH1
7010 LTW-E500T-PH1
7011 LTW-E500T-PH1

GREEN-1
RED-1
BLUE-1
GREEN
RED
BLUE
GND_HS

1M85
SPI-CLOCK-BUF
SPI-DATA-OUT
SPI-DATA-RETURN
SPI-LATCH
PWM-CLOCK-BUF
+3V3
BLANK-BUF
EEPROM-CS
TEMP-SENSOR
PROG
VLED1
VLED2

1M3A
SPI-CLOCK-BUF
SPI-DATA-OUT
SPI-DATA-RETURN
SPI-LATCH
PWM-CLOCK-BUF
+3V3
BLANK-BUF
EEPROM-CS
TEMP-SENSOR
PROG
VLED1
VLED2

GREEN-2
RED-2
BLUE-2

3538 560R
3540 560R
3543 560R
3546 560R
3549 560R
3552 560R
3555 560R
3569 560R
3570 560R
3571 560R
3572 560R
3573 560R
3574 560R

3541 1K5
3544 1K5
3547 1K5
3550 1K5
3553 1K5
3556 1K5
3584 1K5
3585 1K5
3586 1K5
3587 1K5
3588 1K5
3589 1K5
3590 1K5
3591 1K5

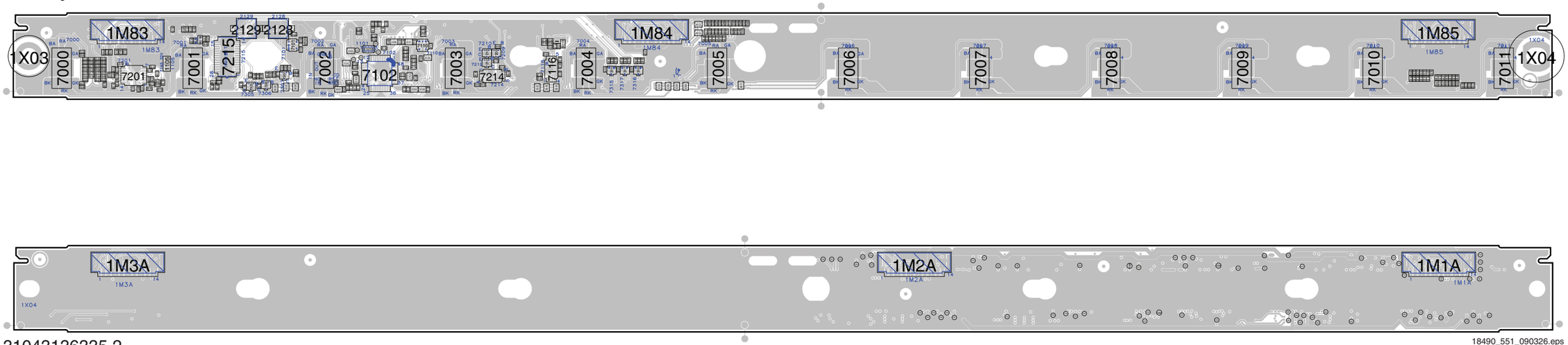
3536 390R
3537 390R
3539 390R
3542 390R

1X04
REF EMC HOLE

CHN	SETNAME		
CLASS_NO	6 LED + CONNECTOR 2K9 LITEON	8204 000 8898	2 2008-10-29
2008-08-14 2			
2008-10-29 3			
NAME Peter Van Hove	SUPERS. 1	130 – 1	A2
	CHECK DATE 2008-07-30		

18560_513_090403.eps
090403

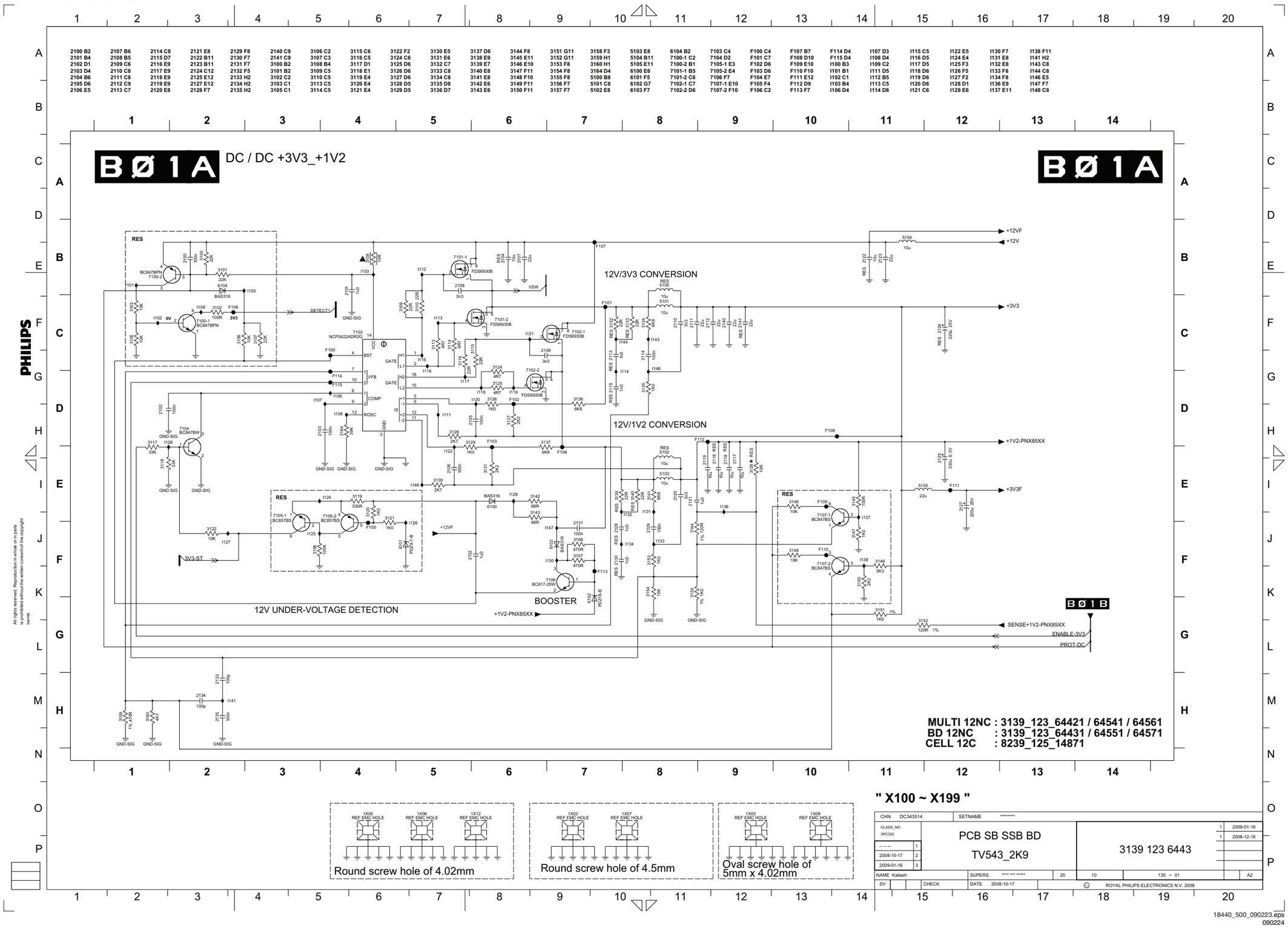
Layout 12 LED Low-Pow



31043136335.2

18490_551_090326.eps
090331

SSB: DC/DC +3V3 +1V2

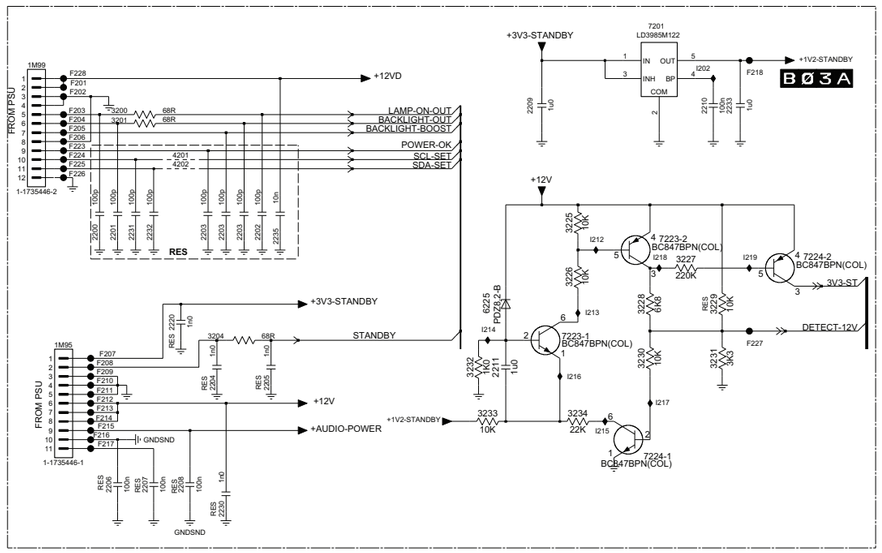


18440_500_090223.eps
090224

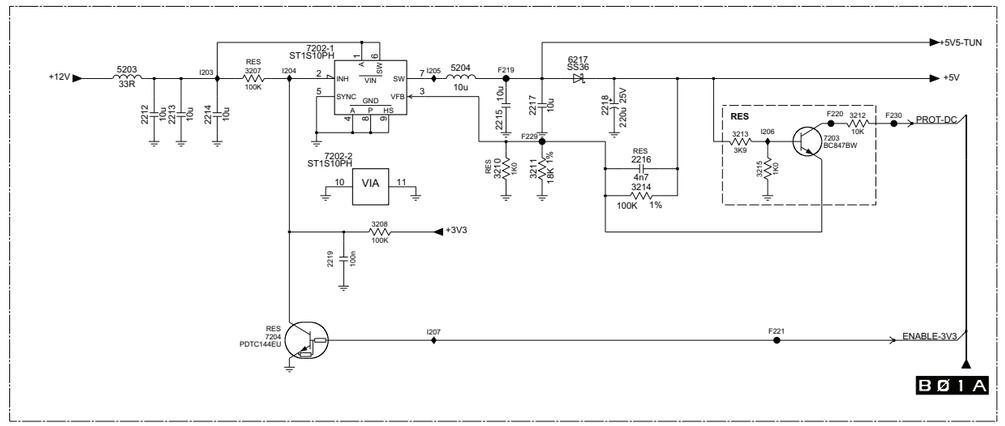
SSB: DC/DC +3V3 +1V2 Standby

1M95 D1 1M99 B1 2200 C1 2201 C1 2202 C2 | 2203 C2 2204 D2 2205 D3 2206 E1 2207 E2 | 2208 E2 2209 B5 2210 B6 2211 D4 2212 B9 | 2213 B9 2214 B9 2215 B12 2216 C13 2217 B12 | 2218 B12 2219 C10 2220 D2 2221 F9 2222 F9 | 2223 F9 2224 F12 2225 F12 2226 F13 2227 F13 | 2228 F13 2229 F13 2230 E2 2231 C1 2232 C2 | 2233 B6 2235 C3 2236 C2 2237 C2 3200 B1 | 3201 B1 3204 D2 3207 B10 3208 C11 3210 C12 | 3211 C12 3212 B14 3213 B13 3214 C13 3215 C14 | 3221 G12 3222 G12 3223 F13 3224 F12 3225 C5 | 3226 C5 3227 C6 3228 D6 3229 D6 3230 D6 | 3231 D6 3232 D4 3233 E4 3234 E5 4201 B2 | 4202 C2 5203 B9 5204 B11 5221 F9 5222 F11 | 6217 B12 6225 D4 7201 A6 7202-1 B10 7202-2 C10 | 7203 B14 7204 D10 7222-1 E10 7223-1 D5 | 7223-2 C6 7224-1 E6 7224-2 C7 F201 B1 F202 B1 | F203 B1 F204 B1 F205 B1 F206 B1 F207 D1 | F208 D1 F209 D1 F210 D1 F211 D1 F212 D1 | F213 D1 F214 E1 F215 E1 F216 E1 F217 E1 | F218 B6 F219 B12 F220 B14 F221 D14 F222 F12 | F223 B1 F224 B1 F225 C1 F226 C1 F227 D6 | F228 B1 F229 B12 F230 B15 F231 F12 I202 B6 | I203 B9 I204 B10 I205 B11 I206 B14 I207 D11 | I210 F9 I212 C5 I213 D5 I214 D4 I215 E5 | I216 D5 I217 D6 I218 C6 I219 C6

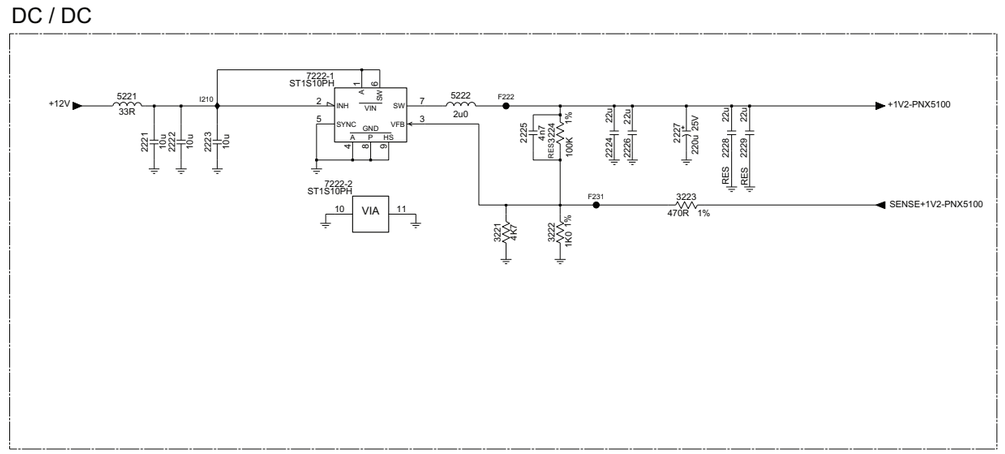
B Ø 1 B DC / DC +3V3-STANDBY_+1V2-STANDBY



DC / DC



DC / DC



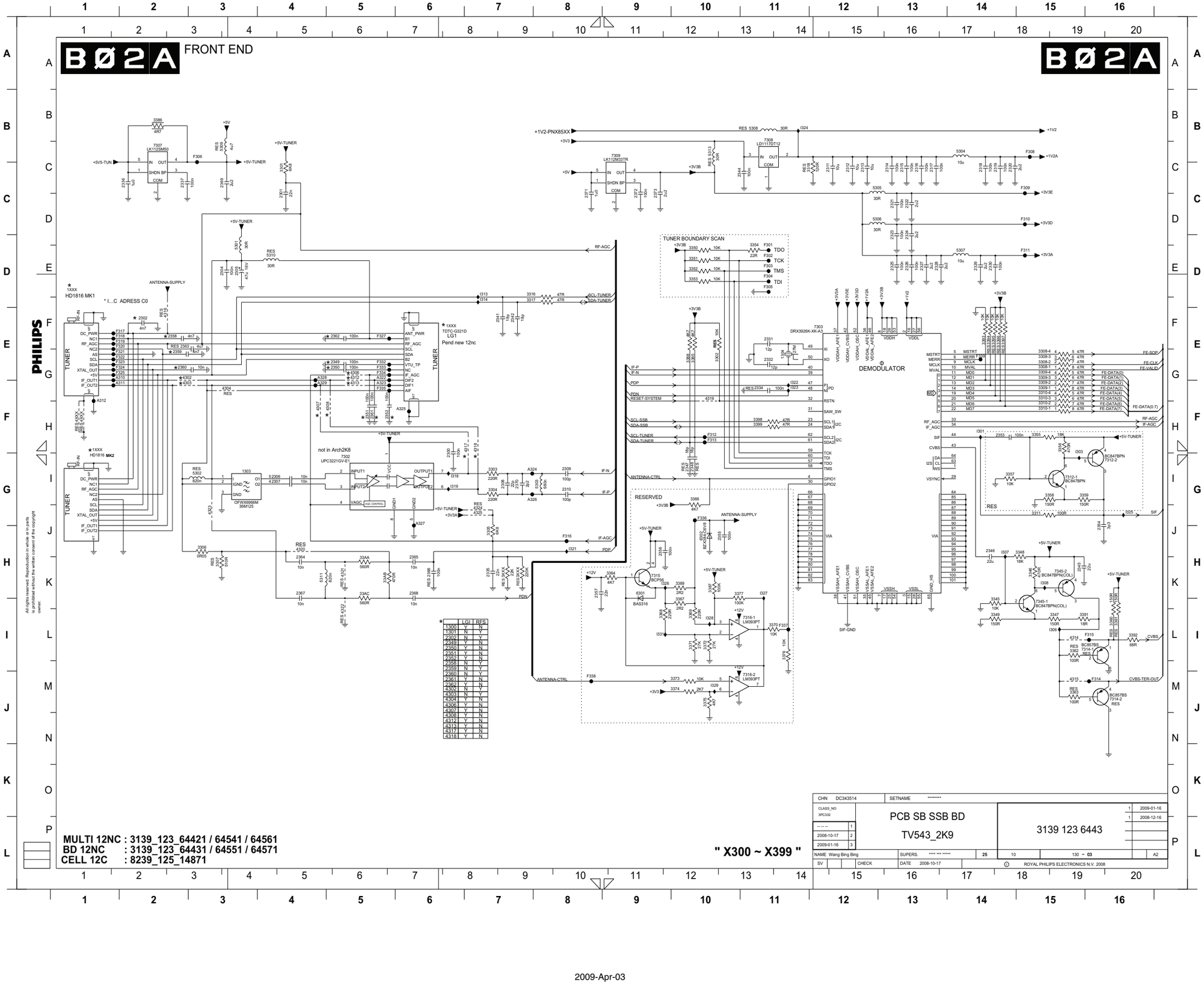
MULTI 12NC : 3139_123_64421 / 64541 / 64561
BD 12NC : 3139_123_64431 / 64551 / 64571
CELL 12C : 8239_125_14871

" X200 ~ X299 "

CHN DC343514	SETNAME ********		
CLASS_NO 3PC332	PCB SB SSB BD	3139 123 6443	1 2009-01-16
-- -- -- 1	TV543_2K9		1 2008-12-16
2008-10-17 2			
2009-01-16 3			
NAME Kailash	SUPERS. **** *** *****	25 10 130 ~ 02	A2
SV CHECK	DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

18440_501_090223.eps
090224

SSB: Front End



	LGI	RES
1300	Y	N
1301	N	Y
2302	N	Y
2349	Y	N
2350	Y	N
2351	Y	N
2352	Y	N
2358	N	Y
2359	N	Y
2360	N	Y
2361	Y	N
2362	Y	N
4302	N	Y
4303	N	Y
4304	Y	N
4306	Y	N
4307	Y	N
4308	Y	N
4312	Y	N
4313	Y	N
4317	Y	N
4318	Y	N

1300 E6	3398 F11	4306 E5	I328 I10
1301 D1	3399 F11	4307 F4	I329 J10
1303 G3	33AA H5	4308 F5	I331 I9
1304 E11	33AB H5	4312 E5	
1306 F1	33AC H5	4313 F5	
2300 F6	4302 E2	4314 I15	
2301 C4	4303 F2	4315 J15	
2302 E2	4304 F3	4316 E2	
2304 D3	4306 E5	4317 F7	
2305 D3	4307 F4	4318 F7	
2306 G4	4308 F5	4319 F10	
2307 G4	4312 E5	4320 H4	
2308 G7	4313 F5	4321 H5	
2309 G8	4314 I15	4322 I5	
2310 G8	4315 J15	4323 G3	
2311 C12	4316 E2	4324 G7	
2312 C12	4317 F7	4325 G7	
2313 C12	4318 F7	4326 F1	
2314 C13	4319 F10	4327 F1	
2315 C13	4320 H4	5301 D3	
2316 C13	4321 H5	5302 G3	
2317 C13	4322 I5	5303 G8	
2318 C14	4323 G3	5304 B14	
2319 C14	4324 G7	5305 C12	
2320 C14	4325 G7	5306 C12	
2321 C13	4326 F1	5307 D14	
2322 C13	4327 F1	5308 B11	
2323 C13	5301 D3	5309 B3	
2324 C13	5302 G3	5310 D4	
2325 D13	5303 G8	5311 H4	
2326 D13	5304 B14	5313 B10	
2327 D13	5305 C12	6301 H9	
2328 D13	5306 C12	6302 H10	
2329 D14	5307 D14	7302 G5	
2330 D14	5308 B11	7303 E12	
2331 E11	5309 B3	7307 B2	
2332 E11	5310 D4	7308 B11	
2334 F11	5311 H4	7309 B9	
2335 H7	5313 B10	7312-1 G15	
2336 C2	6301 H9	7312-2 G16	
2337 C2	6302 H10	7314-1 I15	
2341 E7	7302 G5	7314-2 J16	
2342 E7	7303 E12	7315 H9	
2344 C11	7307 B2	7316-1 I11	
2345 H15	7308 B11	7316-2 J11	
2346 H14	7309 B9	7345-1 I15	
2347 G10	7312-1 G15	7345-2 H15	
2348 G10	7312-2 G16	A310 E2	
2349 E5	7314-1 I15	A311 F2	
2350 E5	7314-2 J16	A312 F1	
2351 F5	7315 H9	A322 E5	
2352 F5	7316-1 I11	A323 F5	
2353 F14	7316-2 J11	A324 G7	
2354 G16	7345-1 I15	A325 F6	
2355 H10	7345-2 H15	A326 G7	
2356 H9	A310 E2	A327 G6	
2357 H8	A311 F2	A328 E4	
2358 E2	A312 F1	A329 F4	
2359 E2	A322 E5	F301 D11	
2360 E2	A323 F5	F302 D11	
2361 F5	A324 G7	F303 D11	
2362 E5	A325 F6	F304 D11	
2363 E2	A326 G7	F305 D11	
2364 H4	A327 G6	F306 B3	
2365 H6	A328 E4	F308 B15	
2366 H6	A329 F4	F309 C15	
2367 H4	F301 D11	F310 C15	
2368 H6	F302 D11	F311 D15	
2369 C3	F303 D11	F312 F10	
2370 G7	F304 D11	F313 F10	
2371 C8	F305 D11	F314 J16	
2372 C9	F306 B3	F315 H16	
2373 C9	F308 B15	F316 H8	
3301 C4	F309 C15	F317 E2	
3302 E10	F310 C15	F318 E2	
3303 G7	F311 D15	F319 E2	
3304 G7	F312 F10	F320 E2	
3305 H7	F313 F10	F321 E2	
3306 H3	F314 J16	F322 E2	
3307 H3	F315 H16	F323 E2	
3308-1 E15	F316 H8	F324 E2	
3308-2 E15	F317 E2	F325 E2	
3308-3 E15	F318 E2	F327 E5	
3308-4 E15	F319 E2	F332 E5	
3309-1 F15	F320 E2	F333 E5	
3309-2 F15	F321 E2	F334 E5	
3309-3 E15	F322 E2	F335 F5	
3309-4 E15	F323 E2	F336 G10	
3310-1 F15	F324 E2	F337 I11	
3310-2 F15	F325 E2	F338 J8	
3310-3 F15	F327 E5	F339 E14	
3310-4 F15	F332 E5	I301 F14	
3311 G15	F333 E5	I303 F15	
3312 H7	F334 E5	I306 I15	
3313 H7	F335 F5	I307 H14	
3316 D7	F336 G10	I308 H15	
3317 D7	F337 I11	I313 D7	
3318 C12	F338 J8	I314 D7	
3345 I14	F339 E14	I318 G6	
3346 H15	I301 F14	I319 G6	
3347 I15	I303 F15	I321 H8	
3348 H15	I306 I15	I322 F11	
3349 I14	I307 H14	I323 F11	
3350 D10	I308 H15	I324 B11	
3351 D10	I313 D7	I325 G16	
3352 D10	I314 D7	I326 H9	
3353 D10	I318 G6	I327 H11	
3354 D11	I319 G6	I328 I10	
3355 F15	I321 H8	I329 J10	
3356 F15	I322 F11	I331 I9	
3357 G14	I323 F11		
3358 G15	I324 B11		
3359 G15	I325 G16		
3360 I16	I326 H9		
3361 I16	I327 H11		
3362 I15	I328 I10		
3363 J15	I329 J10		
3364 H9	I331 I9		
3365 E10			
3366 G10			
3367 I10			
3368 I9			
3369 I10			
3370 I11			
3371 I10			
3372 I10			
3373 J10			
3374 J10			
3375 J10			
3376 I11			
3377 H10			
3386 B2			
3387 H10			
3388 E10			
3389 H10			
3391 I15			
3392 I16			
3393 E14			
3394 E14			
3395 E14			
3396 E14			
3397 E14			

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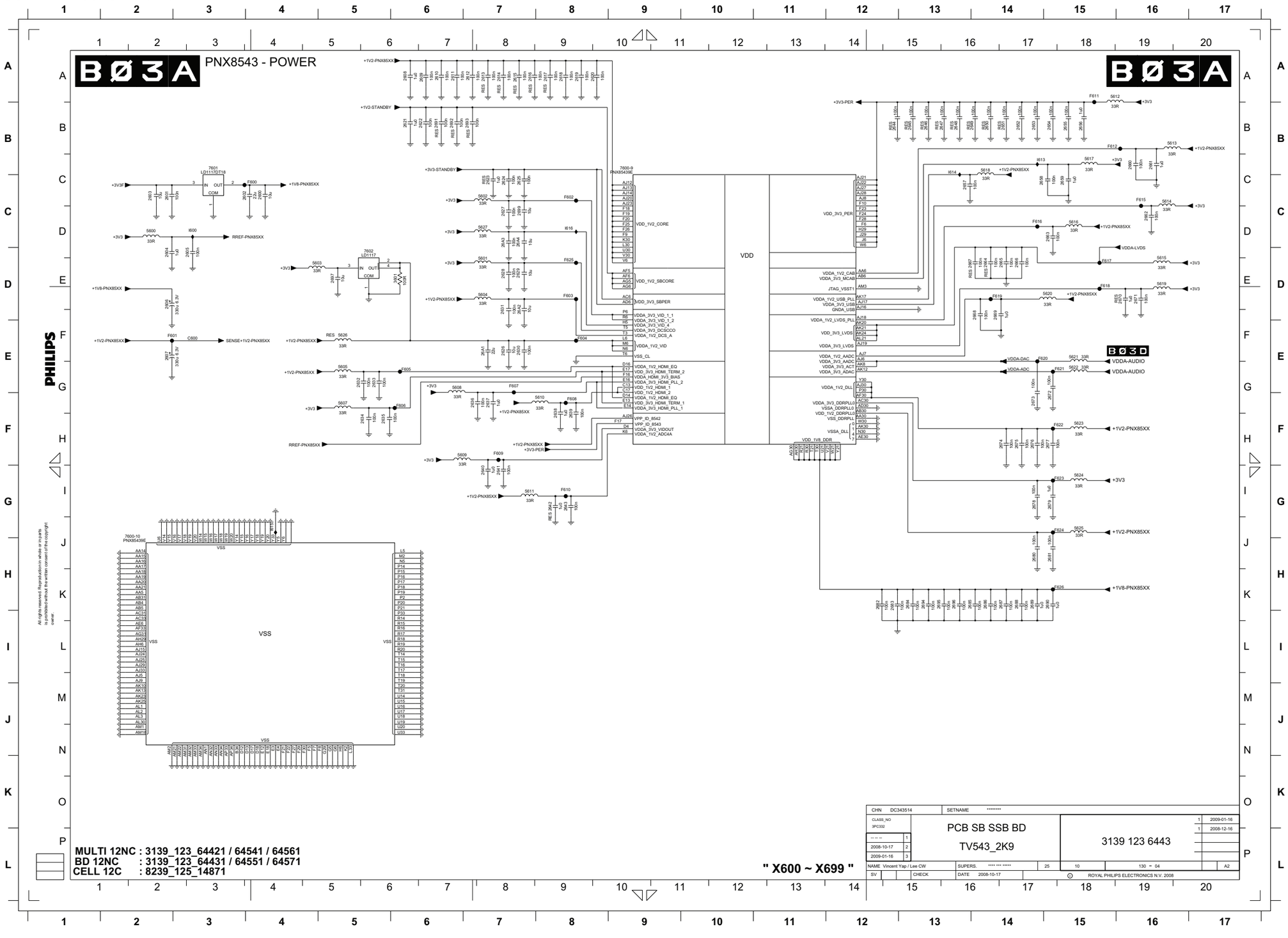
SSB: PNX8543 - Power



2600 C4 F609 F7
2601 C2 F610 G8
2602 C4 F611 A15
2603 C2 F612 B15
2604 D2 F615 C16
2605 D3 F616 C14
2606 D2 F617 D15
2607 E2 F618 D15
2608 A6 F619 D14
2609 A6 F620 E14
2610 A6 F621 E15
2611 A6 F622 F15
2612 A7 F623 G15
2613 A7 F624 G15
2614 A7 F625 D8
2615 A7 F626 H15
2616 A7 I600 C3
2617 A8 I613 B14
2618 A8 I614 B13
2619 A8 I615 G4
2620 A8 I616 C8
2621 B6
2622 B6
2623 C7
2624 C7
2625 C7
2626 E7
2627 C7
2628 D7
2629 D7
2630 E7
2631 D7
2632 E5
2633 E5
2634 F5
2635 F5
2636 F7
2637 F7
2638 F8
2639 F8
2640 G7
2641 G7
2642 G8
2643 G8
2644 B12
2645 B13
2646 B13
2647 B13
2648 B13
2649 B13
2650 B14
2651 B14
2652 B14
2653 B14
2654 B15
2655 B15
2656 B15
2657 C13
2658 C14
2659 C15
2660 B16
2661 B16
2662 C16
2663 C15
2664 D14
2665 D14
2666 D14
2667 D14
2668 D14
2669 D14
2670 D16
2671 D16
2672 F15
2673 F14
2674 F14
2675 F14
2676 F14
2677 F15
2678 G14
2679 G15
2680 H14
2681 H15
2682 H12
2683 H12
2684 H13
2685 H13
2686 H14
2687 H14
2688 H14
2689 H14
2690 H15
2691 B6
2692 B6
2693 B7
2694 H13
2695 H13
2696 H13
2697 D5
2699 C7
26A1 E7
26A2 D7
26A3 C7
26A4 C7
3601 D6
5600 C2
5601 D7
5602 C7
5603 D4
5604 D7
5605 E5
5607 F5
5608 E6
5609 F6
5610 F8
5611 G7
5612 A15
5613 B16
5614 C16
5615 D16
5616 C15
5617 B15
5618 B14
5619 D16
5620 D15
5621 E15
5622 E15
5623 F15
5624 G15
5625 G15
5626 E5
5627 C7
7600-10 G2
7600-9 B9
7601 B3
7602 D5
C600 E3
F600 C4
F601 E2
F602 C8
F603 D8
F604 E8
F605 E6
F606 F6
F607 E7
F608 F8

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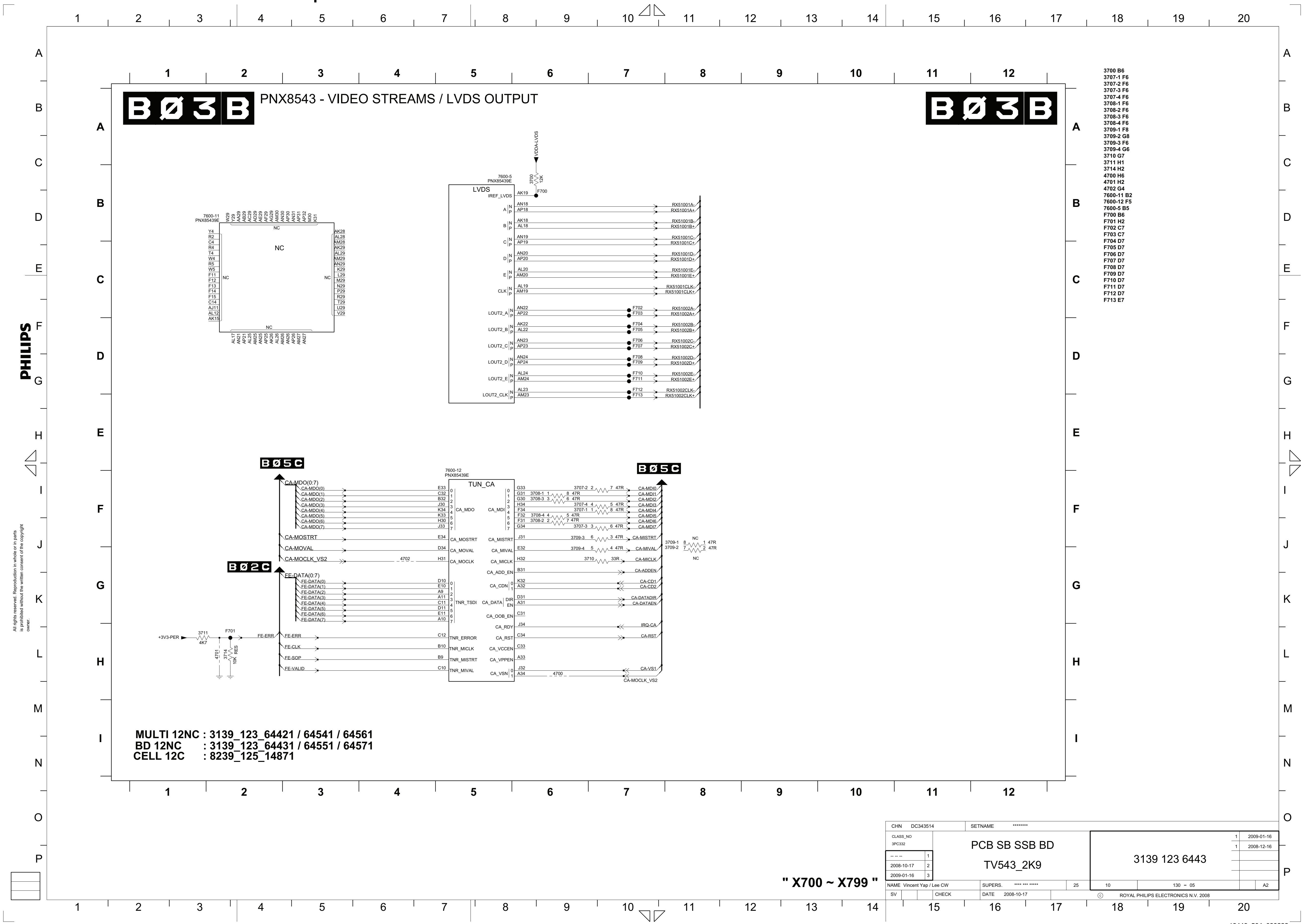
SSB: PNX8543 - Video Streams/LVDS Output



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SSB: PNX8543 Audio Amplifier

B Ø 3 C PNX8543 - AUDIO AMPLIFIER

B Ø 1 B
+AUDIO-POWER

RESERVED FOR ITV

BATHROOM SPEAKER

ADAC(7) ADAC(8) ADAC(5) ADAC(6) ADAC(3) ADAC(4) AUDIO-RESET

AUDIO-CL-L AUDIO-CL-R AUDIO-OUT-L AUDIO-OUT-R

AUDIO-VDD +3V3 +AUDIO-POWER

AUDIO-RESET A-PLOP A-STBY

HP_LOUT HP_ROUT

7830 TPA6111A2DGN AMPLIFIER

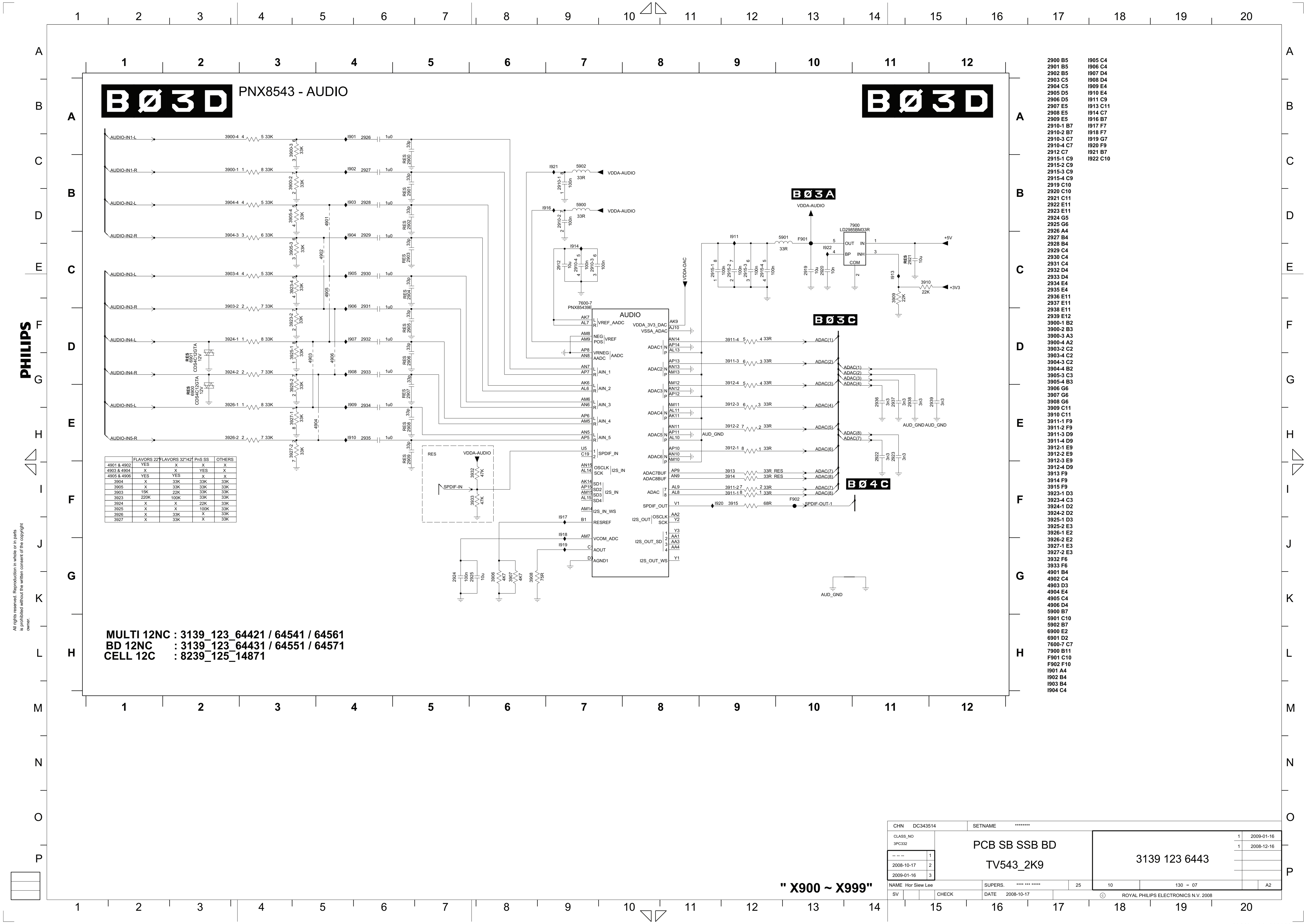
MULTI 12NC : 3139_123_64421 / 64541 / 64561
BD 12NC : 3139_123_64431 / 64551 / 64571
CELL 12C : 8239_125_14871

" X800 ~ X899 "

CHN DC343514	SETNAME ********		
CLASS_NO 3PC332	PCB SB SSB BD	3139 123 6443	1 2009-01-16
-- -- -- 1	TV543_2K9		1 2008-12-16
2008-10-17 2			
2009-01-16 3			
NAME Hor Siew Lee	SUPERS. **** *** *****	25	10 130 ~ 06 A2
SV CHECK	DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

1800 G1 I850 H9
2800 B2 I851 H9
2806 A8
2808 C8
2809 E8
2810 F8
2811 D7
2812 E7
2822 C12
2823 B8
2824 G2
2825 G2
2826 A7
2827 B7
2830 D7
2831 E7
2832 H6
2833 H6
2834 G8
2835 G7
2836 G7
2837 H6
3810 F2
3811 F3
3812 F3
3813 F4
3814 G2
3815 G3
3816-1 B8
3816-2 B7
3816-3 C7
3816-4 C8
3817-1 D7
3817-2 D8
3817-3 F7
3817-4 F8
3818 B2
3819-1 B3
3819-2 B3
3819-3 C3
3819-4 C3
3820 C2
3821 G1
3822 G1
3830-1 B13
3830-2 C13
3830-3 C11
3830-4 C11
3831 A9
3832 C9
3833 B12
3834 E9
3835-1 H6
3835-2 G7
3835-3 F7
3835-4 H6
3839 H7
3840 D9
3841 C11
4801 A3
6801 B2
7801 B4
7802 C3
7803-1 A8
7803-2 B8
7803-3 D8
7803-4 E8
7807-1 C12
7807-2 C14
7808 F2
7809 F3
7830 G7
F800 G1
F801 G2
F802 G2
F803 B9
F804 D9
F805 E9
F808 C11
F809 A9
F811 C14
F812 B4
I810 F2
I811 F3
I812 F4
I813 F3
I814 A7
I815 B7
I816 D7
I817 E7
I818 B2
I819 B3
I821 C2
I822 C3
I823 C3
I833 A7
I835 B7
I836 D7
I837 E7
I839 C12
I840 C13
I845 H6
I846 H6
I847 H7
I848 H7
I849 H7

SSB: PNX8543 Audio



	FLAVORS 22"	FLAVORS 32"/42"	PnS SS	OTHERS
4901 & 4902	YES	X	X	X
4903 & 4904	X	X	YES	X
4905 & 4906	YES	YES	X	X
3904	X	33K	33K	33K
3905	X	33K	33K	33K
3903	15K	22K	33K	33K
3923	220K	100K	33K	33K
3924	X	X	22K	33K
3925	X	X	100K	33K
3926	X	33K	X	33K
3927	X	33K	X	33K

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SSB: PNX8543 Analog AV

2A02 D3 2A03 E3 2A04 F2 2A06 B6 2A07 C6 2A08 D6 2A09 D5
2A10 E11 2A11 E11 2A12 D11 2A13 E6 2A14 E6 2A15 E6 2A16 E6
2A17 F6 2A18 F6 2A19 F6 2A20 F6 2A21 F6 2A22 G6 2A23 G6
2A24 G6 2A25 G6 2A26 H6 2A27 H6 2A28 H6 2A29 H6 2A30 H6
2A31 F12 2A32 C11 2A33 C12 2A34 C12 2A35 B11 2A36 B12 2A37 B12
2A38 C11 2A39 C12 2A40 C12 2A41 F11 2A42 F12 2A43 F12 2A44 E11
2A45 E12 2A46 E12 2A47 D11 2A48 D12 2A49 D12 2A50 F11 2A51 G6
2A52 G11 2A53 H11 2A54 A7 2A55 B7 2A56 A7 2A57 G11 2A59 H12
2A60 H11 2A65 E9 2A66 E10 2A67 E10 2A68 F11 2A69 F11 2A70 E10
2A71 G6 2A72 C5 2A73 C6 2A74 C5 2A75 C6 2A76 D5 2A77 D6
3A06 E3 3A07 E3 3A08 E3 3A09 F3 3A10 F2 3A11 F2 3A13 D3
3A14 B5 3A15 C6 3A16 C5 3A17 C6 3A18 D5 3A19 D6 3A20 F14
3A21 F12 3A22 C13 3A23 C12 3A24 B13 3A25 B12 3A26 C13 3A27 C12
3A28 F13 3A29 F12 3A30 E13 3A31 E12 3A32 D13 3A33 D12 3A34 G14
3A35 G12 3A36 G14 3A37 G12 3A38 H14 3A39 H12 3A40 A6 3A41 A6
3A42 B6 3A43 B7 3A44 A6 3A45 B7 3A46 G14 3A47 H12 3A49 H11
3A50 D3 3A51 F3 3A52 E2 3A53 E2 3A54 B5 3A55 C5 3A56 D5
4A01 D12 4A02 E12 4A03 E12 4A04 E5 4A05 E5 4A06 F5 5A00 C12
5A01 B12 5A02 C12 5A03 F12 5A04 E12 5A05 D12 5A06 B6 5A07 C6
5A08 D6 7600-1 D3 CA01 H10 FA11 C6 FA13 B6 FA14 D3 IA03 E3
IA04 E3 IA05 F3 IA06 F3 IA07 F3 IA09 F6 IA11 G6 IA12 G5
IA13 G6 IA14 H5 IA15 H5 IA16 H5 IA17 C12 IA18 C13 IA19 F13
IA20 E12 IA21 F12 IA22 C12 IA24 D12 IA25 F12 IA27 H12 IA28 A6
IA29 A6 IA30 G12 IA33 F12 IA35 E3 IA43 E13 IA44 D13 IA45 H11
IA46 H12

B Ø 3 E — PNX8543 - ANALOG AV

B Ø 4 C

B Ø 2 A

R-VGA, B-VGA, G-VGA, H-SYNC-VGA, V-SYNC-VGA, AV3-PR, AV3-PB, AV3-Y, Y_CVBS-MON-OUT, SIF-GND, GND_A3_TG

7600-1 PNX8543E ANALOG_VIDEO

HSYNCIN, VSYN, CURREF, BIAS DAC, AGC, CVBS1Y, CVBS2C

SCART: SC1-G, SC1-B, SC1-R

AV2-Y_SC2-G, AV2-PB_SC2-B, AV2-PR_SC2-R, CVBS1, CVBS2, FRONT-Y_CVBS, CVBS, FRONT-C, SIF

	CINCH	SCART
2A10	Y	N
2A11	Y	N
2A12	Y	N
2A41	N	Y
2A44	N	Y
2A47	N	Y
2A65	N	Y
2A66	Y	N
2A67	Y	N
2A68	N	Y
2A69	Y	N
2A70	N	Y

	SCART	CINCH
3A28	27R	18R
3A29	47R	56R
3A30	27R	18R
3A31	47R	56R
3A32	27R	18R
3A33	47R	56R

MULTI 12NC : 3139_123_64421 / 64541 / 64561
BD 12NC : 3139_123_64431 / 64551 / 64571
CELL 12C : 8239_125_14871

" XA00 ~ XA99 "

CHN DC343514	SETNAME ********		
CLASS_NO 3PC332	PCB SB SSB BD TV543_2K9	3139 123 6443	1 2009-01-16 / 1 2008-12-16
-- -- -- 1 / 2008-10-17 2 / 2009-01-16 3			
NAME Vincent Yap / Lee CW	SUPERS. **** *** *****	25	10 / 130 ~ 08 / A2
SV / CHECK	DATE 2008-10-17		

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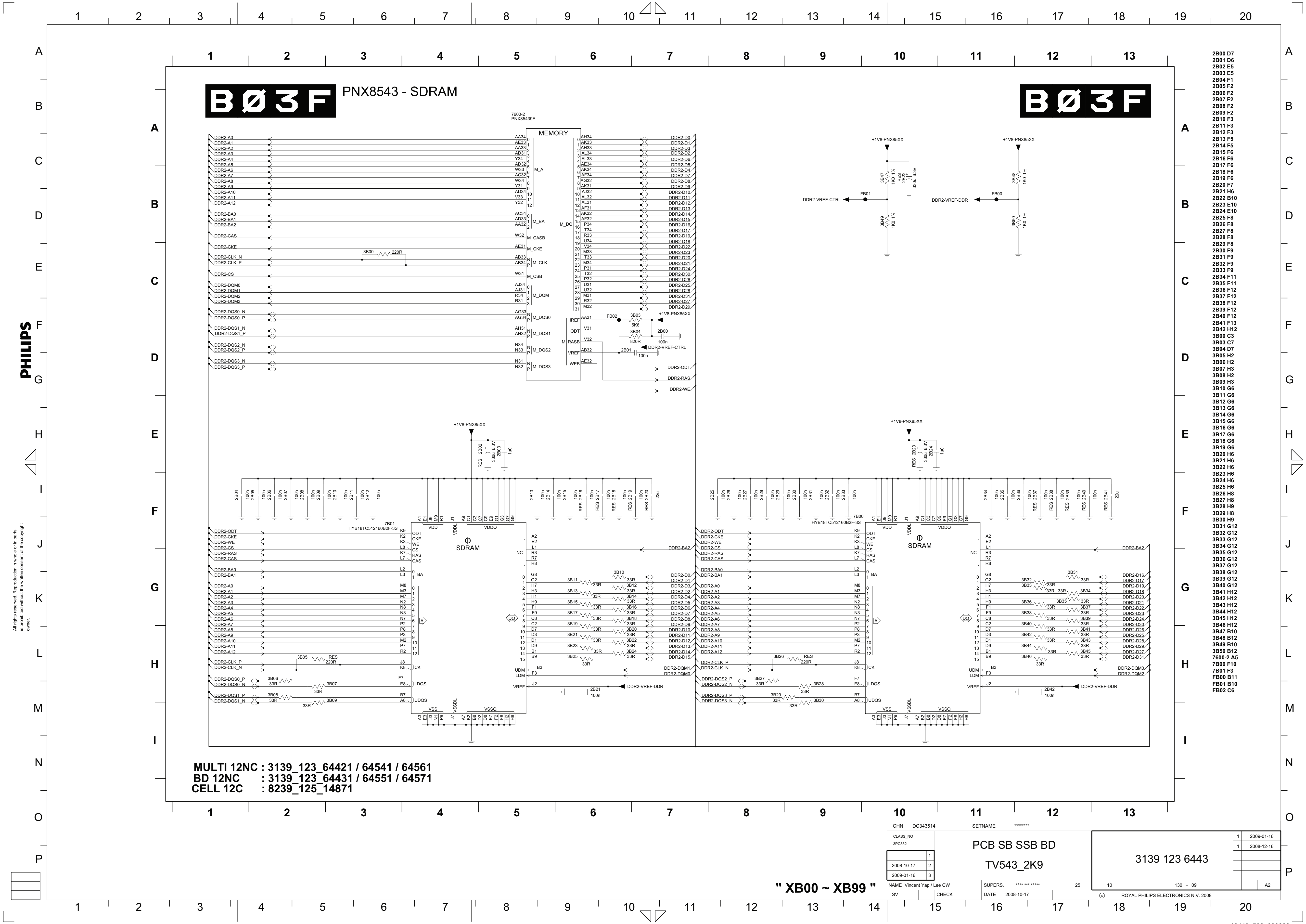
SSB: PNX8543 SDRAM



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SSB: PNX8543 Control MIPS/Flash/PCI

B Ø 3 G

PNX8543 - CONTROL MIPS/FLASH/PCI

B Ø 3 G

PHILIPS

MULTI 12NC : 3139_123_64421 / 64541 / 64561
BD 12NC : 3139_123_64431 / 64551 / 64571
CELL 12C : 8239_125_14871

" XM00 ~ XM99 "

CHN DC343514	SETNAME ********		
CLASS_NO 3PC332	PCB SB SSB BD	1	2009-01-16
-- -- -- 1	TV543_2K9	1	2008-12-16
2008-10-17 2	3139 123 6443		
2009-01-16 3			
NAME She King Chuang	SUPERS. **** *** *****	25	10 — 130 — 10 A2
SV CHECK	DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

★	/32	/82
3M30	N.S.	27R
3M43	N.S.	N.S.
3M46	0R	27R

1M01 J4 5M85 J10
1M03 J17 5M87 J10
1M04 K4 5M88 J10
1M09 D10 6M00 K4
1M20 J11 6M01 J3
1P09 I12 6M02 J4
2M00 C8 6M03 K3
2M01 C8 6M04 E8
2M02 C9 6M05 E9
2M03 C9 7600-3 E6
2M04 C9 7600-8 B5
2M05 D9 7M00 C15
2M10 C16 7M01 G15
2M11 C17 7M02 G10
2M12 G15 7M80 J8
2M16 D9 7M81 K8
2M17 G10 FM00 J10
2M18 G10 FM01 J10
2M19 H11 FM02 J10
2M20 H11 FM03 J10
2M21 H11 FM04 J10
2M86 K9 FM05 J10
2M87 K9 FM06 J10
2M88 J9 FM07 J10
2M89 J9 FM08 E9
2M90 I9 FM09 E9
2M91 I9 FM10 E9
2M92 K2 FM11 J16
2M93 K3 FM12 J16
2M95 I8 FM13 J16
3M00 B4 FM14 J16
3M01-1 C2 FM15 J16
3M01-2 B2 FM16 J16
3M01-3 B2 FM17 J16
3M01-4 B2 FM21 J4
3M05 C2 FM22 J3
3M06 B4 FM23 K3
3M07 C2 FM24 K3
3M08 C2 FM25 K4
3M09 C2 FM28 B4
3M10 C2 FM33 C15
3M11 C2 FM34 E6
3M12 D2 FM35 E6
3M13 D2 FM36 D8
3M14 D4 FM37 J4
3M15 D4 FM38 E9
3M16 D4 FM39 B4
3M17 E4 FM40 C5
3M18 E4 FM41 C5
3M19 E4 FM42 C5
3M20 C6 FM43 C5
3M21 D6 FM45 E14
3M22 D6 IM07 F7
3M23 D6 IM08 G6
3M24 D6 IM13 E15
3M25 D6 IM14 E15
3M26 E6 IM18 C8
3M27 E6 IM19 D5
3M29 G6 IM20 F6
3M30 G11 IM21 C5
3M31 C8 IM23 C6
3M32 D8 IM24 D6
3M33 D8 IM25 D6
3M34 F6 IM26 D6
3M35 H7 IM28 H6
3M36-1 E8 IM31 H10
3M36-2 E8 IM32 H11
3M36-3 E8 IM33 H11
3M36-4 E8 IM34 H11
3M37-2 F9 IM35 I12
3M37-3 F9 IM84 K7
3M37-4 F9 IM85 J7
3M38-2 G8 IM86 I8
3M38-3 G8 IM87 I8
3M39 H11 IM88 J8
3M40 H9 IM89 K8
3M41 H11 IM90 K8
3M42 H11
3M43 G11
3M44-1 I14
3M44-2 I14
3M44-3 I14
3M44-4 I14
3M45 K14
3M46 G11
3M47 K15
3M54-1 F13
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3M54-3 F13
3M54-4 F13
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3M58-2 D13
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3M74 J3
3M75 K3
3M76 K3
3M77 C2
3M78 C2
3M79 I6
3M80 J6
3M81 K6
3M82 I8
3M83 I8
3M84 J7
3M85 C2
3M86 I9
3M87 I9
3M88 J8
3M89 K9
3M90 E4
3M91 E4
3M92 E6
3M93 E6
3M94 C7
3M95 C7
3M96 J8
3M97 K7
3M98 K9
3M99 J8
4M02 B5
4M03 C4
4M05 H15
4M06 H15
4M83 K7
4M84 J7
4M88 J9
5M00 C13
5M01 C9
5M80 J10
5M81 J10
5M82 J10
5M83 J10
5M84 J10

18440_509_090223.eps
090224

SSB: PNX8543 Standby Control/Debug

B Ø 3 H PNX8543 - STANDBY-CONTROL / DEBUG **B Ø 3 H**

PHILIPS

MULTI 12NC : 3139_123_64421 / 64541 / 64561
BD 12NC : 3139_123_64431 / 64551 / 64571
CELL 12C : 8239_125_14871

" XD00 ~ XD99 "

CHN DC343514	SETNAME ********
CLASS_NO 3PC332	PCB SB SSB BD
2008-10-17 2	TV543_2K9
2009-01-16 3	3139 123 6443
NAME She King Chuang	SUPERS. **** *** ***** 25 10 130 – 11 A2
SV CHECK	DATE 2008-10-17

1 2009-01-16
1 2008-12-16

18440_510_090223.eps
090224

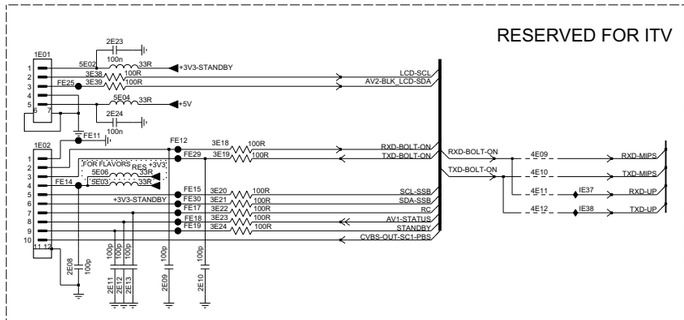
1D00 A3
1D01 H13
2D00 A3
2D01 A3
2D02 D2
2D03 G5
2D04 A10
2D05 C12
2D06 E13
2D07 H14
2D08 I14
2D09 B3
2D14 B7
2D15 F8
2D16 F9
2D17 B7
3D00 B2
3D01 B2
3D02 B2
3D03 B2
3D04 B2
3D05 B2
3D06 B2
3D07 B2
3D08 B2
3D09 C2
3D10 C2
3D11 C2
3D12 C2
3D13 C2
3D14 C2
3D15 C2
3D16 C2
3D17 C2
3D18 C2
3D19 C2
3D20 C2
3D21 D2
3D22 D2
3D23 D2
3D24 D2
3D25 D2
3D26 E2
3D27 E2
3D28-1 F4
3D28-2 F5
3D29 F3
3D30 F3
3D33 G3
3D34 G3
3D35 H3
3D36 H2
3D37 A7
3D38 A7
3D39 A7
3D40 A7
3D41 A7
3D42 A8
3D43 A8
3D44 A8
3D45 B7
3D46 B7
3D47 B7
3D48 B7
3D49 B7
3D50 C7
3D51 C7
3D52 C4
3D56-1 E12
3D56-2 E12
3D56-3 E12
3D56-4 E13
3D57 H11
3D58 C13
3D62 H2
3D63 F7
3D64 F9
3D65 F8
3D66 F8
3D67 I3
4D00 A2
4D01 A2
4D02 A2
4D06 C11
4D07 C11
4D08 H4
4D09 E7
6D00 H11
6D01 G3
6D02 F9
7600-6 A5
7D00-1 F4
7D00-2 G4
7D01 F5
7D02-1 H4
7D02-2 H4
7D05 C12
7D06 E12
7D07 E13
7D08 I11
7D09 A10
7D10 F7
FD00 A4
FD02 C14
FD03 C11
FD04 E12
FD05 E11
FD06 F13
FD07 F14
FD08 F13
FD09 H13
FD10 I13
FD11 E13
FD12 E7
FD13 B9
FD14 B11
FD15 B9
FD16 B9
FD17 B9
FD18 H14
FD19 B4
FD20 B4
FD21 C4
FD22 D2
ID17 F4
ID18 F3
ID19 F4
ID20 G3
ID22 H4
ID23 H3
ID31 F12
ID40 A1
ID44 F8
ID45 F8
ID46 F9
ID47 F2
ID49 G2
ID50 H2
ID51 H4
ID52 B4

SSB: Bolt-on

B Ø 4 A BOLT-ON

B Ø 4 A

RESERVED FOR ITV



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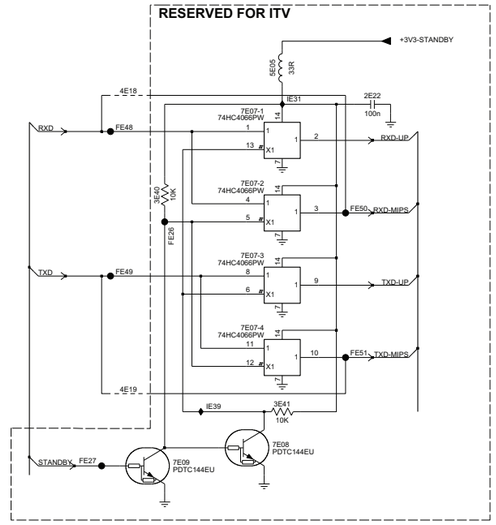
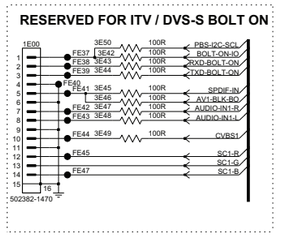


RESERVED FOR ITV / DVS-S BOLT ON



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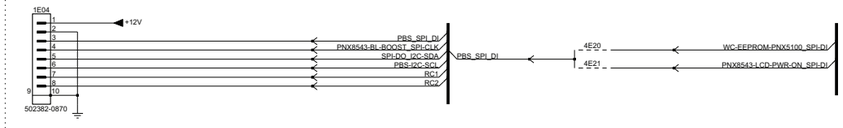


MULTI 12NC : 3139_123_64421 / 64541 / 64561
BD 12NC : 3139_123_64431 / 64551 / 64571
CELL 12C : 8239_125_14871

1E00 B11
1E01 A1
1E02 B1
1E04 G1
2E08 C1
2E09 C2
2E10 C2
2E11 C1
2E12 C2
2E13 C2
2E22 B9
2E23 A2
2E24 B2
3E18 B2
3E19 B2
3E20 C2
3E21 C2
3E22 C2
3E23 C2
3E24 C2
3E38 B1
3E39 B1
3E40 C8
3E41 D9
3E42 B12
3E43 B12
3E44 B12
3E45 B12
3E46 B12
3E47 B12
3E48 B12
3E49 B12
3E50 B12
4E09 B5
4E10 B5
4E11 C5
4E12 C5
4E18 B7
4E19 D7
4E20 G5
4E21 G5
5E02 B1
5E03 B1
5E04 B2
5E05 B9
5E06 B1
7E07-1 B8
7E07-2 C8
7E07-3 C8
7E07-4 D8
7E08 E9
7E09 E8
FE11 B1
FE12 B2
FE14 B1
FE15 C2
FE17 C2
FE18 C2
FE19 C2
FE25 B1
FE26 C8
FE27 E7
FE29 B2
FE30 C2
FE37 B11
FE38 B11
FE39 B11
FE40 B11
FE41 B11
FE42 B11
FE43 B11
FE44 B11
FE45 B11
FE47 C11
FE48 B7
FE49 C7
FE50 C9
FE51 D9
IE31 B9
IE37 C5
IE38 C5
IE39 D8

" XE00 ~ XE99 "

CHN DC343514	SETNAME ********		
CLASS_NO 3PC332	PCB SB SSB BD TV543_2K9	3139 123 6443	1 2009-01-16 / 1 2008-12-16
-- -- -- 1 / 2008-10-17 2 / 2009-01-16 3			
NAME Vincent Yap / Lee CW	SUPERS. **** *** *****	25	10 — 130 – 12 — A2
SV — CHECK ********	DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

18440_511_090223.eps
090224

SSB: Analog IO - Scart 1 & 2

B Ø 4 B — ANALOG IO - SCART 1 & 2

B Ø 4 B

B Ø 3 D

PHILIPS

SCART2 (AV2) 1F02

SCART1 (AV1) 1F01

MRC-021H-09 PC

FLAVORS 1E32 CON_STND_MAL_N40_M2

SCART

AP-SCART-OUT-R
AP-SCART-OUT-L
AUDIO-IN2-R
AUDIO-IN2-L
AV2-STATUS
AV2-PB_SC2-B
AV2-Y_SC2-G
AV2-PR_SC2-R
AV2-BLK_LCD-SDA
CVBS-OUT-SC1
CVBS2
CVBS-OUT-SC2
CVBS-OUT-SC1-PBS
CVBS-TER-OUT
Y_CVBS-MON-OUT-SC
Y_CVBS-MON-OUT
A-PLOP
REGIMBEAU_CVBS-SWITCH
AUDIO-CL-L
AUDIO-CL-R
AUDIO-IN1-R
AUDIO-IN1-L
AV1-STATUS
AV1-BLK-BO
AV1-BLK
CVBS1
SC1-B
SC1-G
SC1-R

MULTI 12NC : 3139_123_64421 / 64541 / 64561
BD 12NC : 3139_123_64431 / 64551 / 64571
CELL 12C : 8239_125_14871

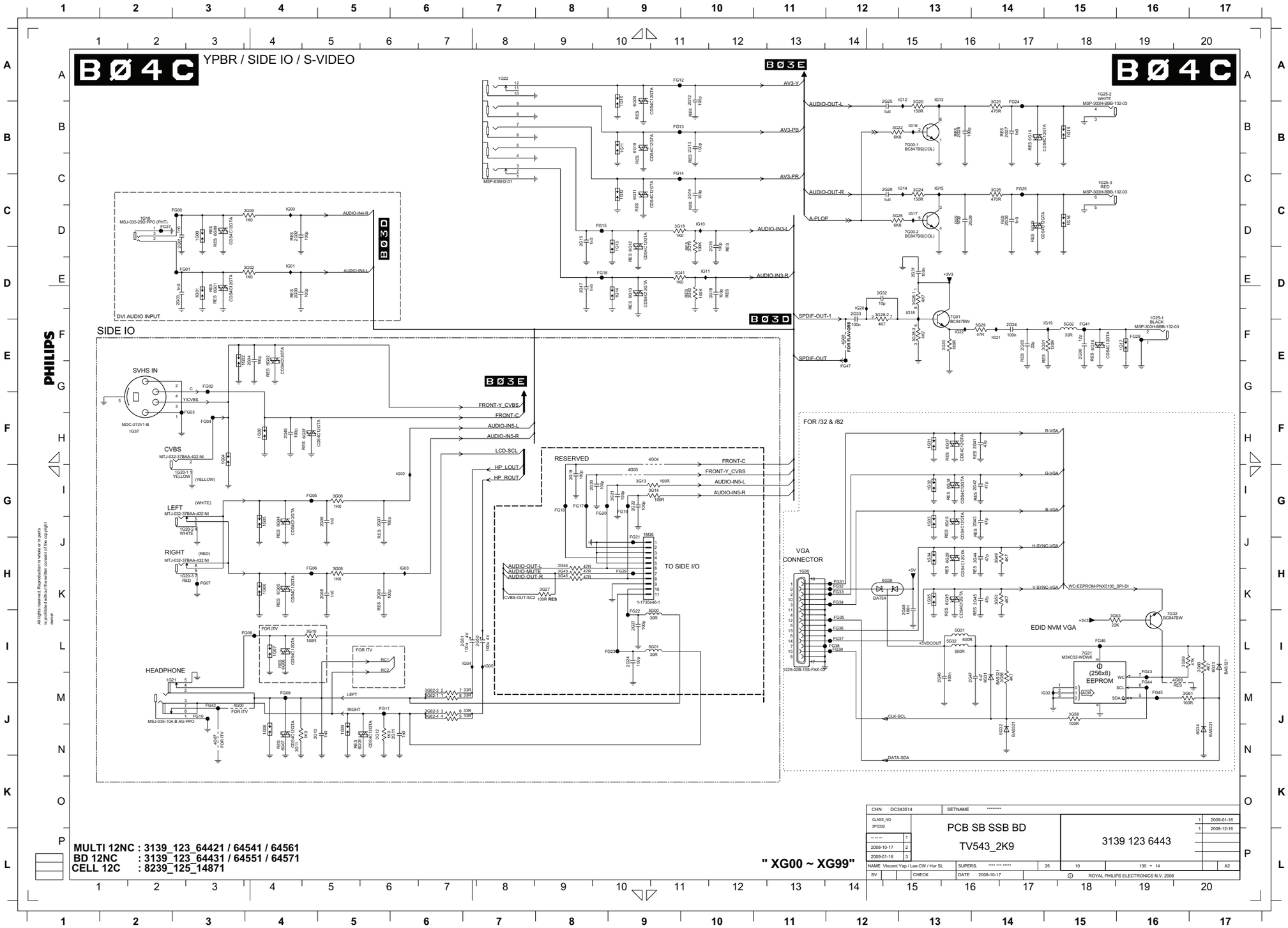
" XF00 ~ XF99 "

CHN DC343514	SETNAME ********		
CLASS_NO 3PC332	PCB SB SSB BD	3139 123 6443	1 2009-01-16
-- -- -- 1	TV543_2K9		1 2008-10-17
2008-10-17 2			
2009-01-16 3			
NAME Vincent Yap / Lee CW	SUPERS. **** *** *****	25 10 130 ~ 13	A2
SV CHECK	DATE 2008-10-17	ROYAL PHILIPS ELECTRONICS N.V. 2008	

1E32 C11 1F00 B7 1F01 D17 1F02 D9 1F03 D7 1F04 E7 1F05 F7 1F06 G7 1F07 H7 1F08 I8 1F09 J7 1F10 K7 1F11 B15 1F12 C15 1F13 C15 1F14 D15 1F15 E14 1F16 F14 1F17 G14 1F18 H14 1F19 I15 1F20 J16 1F21 K16 1F22 C7 1F23 D7 2F00 D3 2F01 B4 2F02 C4 2F03 E2 2F04 I3 2F05 J3 2F06 B8 2F07 B6 2F08 C8 2F09 C6 2F10 C7 2F11 D6 2F12 D7 2F13 D6 2F14 E6 2F15 F6 2F16 G6 2F17 H6 2F18 I7 2F19 J7 2F20 B15 2F21 B14 2F22 C15 2F23 C14 2F24 C15 2F25 C14 2F26 D15 2F27 D14 2F28 E15 2F29 F13 2F30 G15 2F31 H15 2F33 I14 2F34 J15 2F35 I9 2F36 I10 2F37 I10 2F38 J9 2F39 J12 2F42 F15 2F43 F7 2F44 K7 2F45 K16 3F00 B3 3F01 B2 3F02 C3 3F03 C2 3F04 D3 3F05 I2 3F06 I2 3F07 J2 3F08 K2 3F09 B6 3F10 B6 3F11 C6 3F13 C6 3F14 D6 3F15 D6 3F18 F6 3F19 F6 3F20 H4 3F22 I7 3F23 I7 3F24 I8 3F26 J5 3F27 B14 3F28 B13 3F29 C14 3F31 C14 3F32 C13 3F33 D14 3F36 F14 3F37 F14 3F40 I14 3F41 I15 3F42 I15 3F44 J14 3F45 I11 3F46 I11 3F47 I12 3F48 J10 3F49 J11 3F50 J11 3F51 J11 3F52 J9 3F53 J12 4F00 J3 4F01 J9 4F03 D8 4F04 E8 4F05 H13 4F06 J13 4F07 H6 5F00 I9 6F00 B7 6F01 C7 6F02 C7 6F03 D7 6F04 E7 6F05 F7 6F06 G7 6F07 H7 6F08 I7 6F09 J6 6F10 K6 6F11 B15 6F12 C15 6F13 C15 6F14 D15 6F15 E15 6F16 F15 6F17 G15 6F18 H15 6F19 I15 6F20 J15 6F21 K15 7F00-1 B3 7F00-2 C3 7F01 E4 7F02 E2 7F03 I2 7F04 K2 7F05 I7 7F06 I14 7F07-1 J11 7F07-2 J10 7F08 J9 FF00 C4 FF01 B8 FF02 C8 FF03 C8 FF04 E7 FF05 E8 FF06 F8 FF08 F8 FF09 G8 FF10 G8 FF11 G8 FF12 G8 FF13 G8 FF14 D16 FF15 D16 FF16 E16 FF17 E16 FF18 E16 FF19 E16 FF20 F16 FF21 F16 FF22 F16 FF23 G16 FF24 G16 FF25 G16 FF26 B4 FF27 I3 FF28 J3 FF29 C6 FF30 D6 FF31 F6 FF32 H6 FF33 I6 FF34 H13 FF35 F13 FF36 D13 FF37 C13 FF38 E4 FF39 I14 IF00 B4 IF01 C4 IF02 B3 IF03 C3 IF04 E3 IF06 F3 IF12 I2 IF14 J2 IF16 I7 IF25 I14 IF26 I11 IF27 I10 IF28 J11 IF29 J12 IF30 J9 IF31 J10 IF32 J11

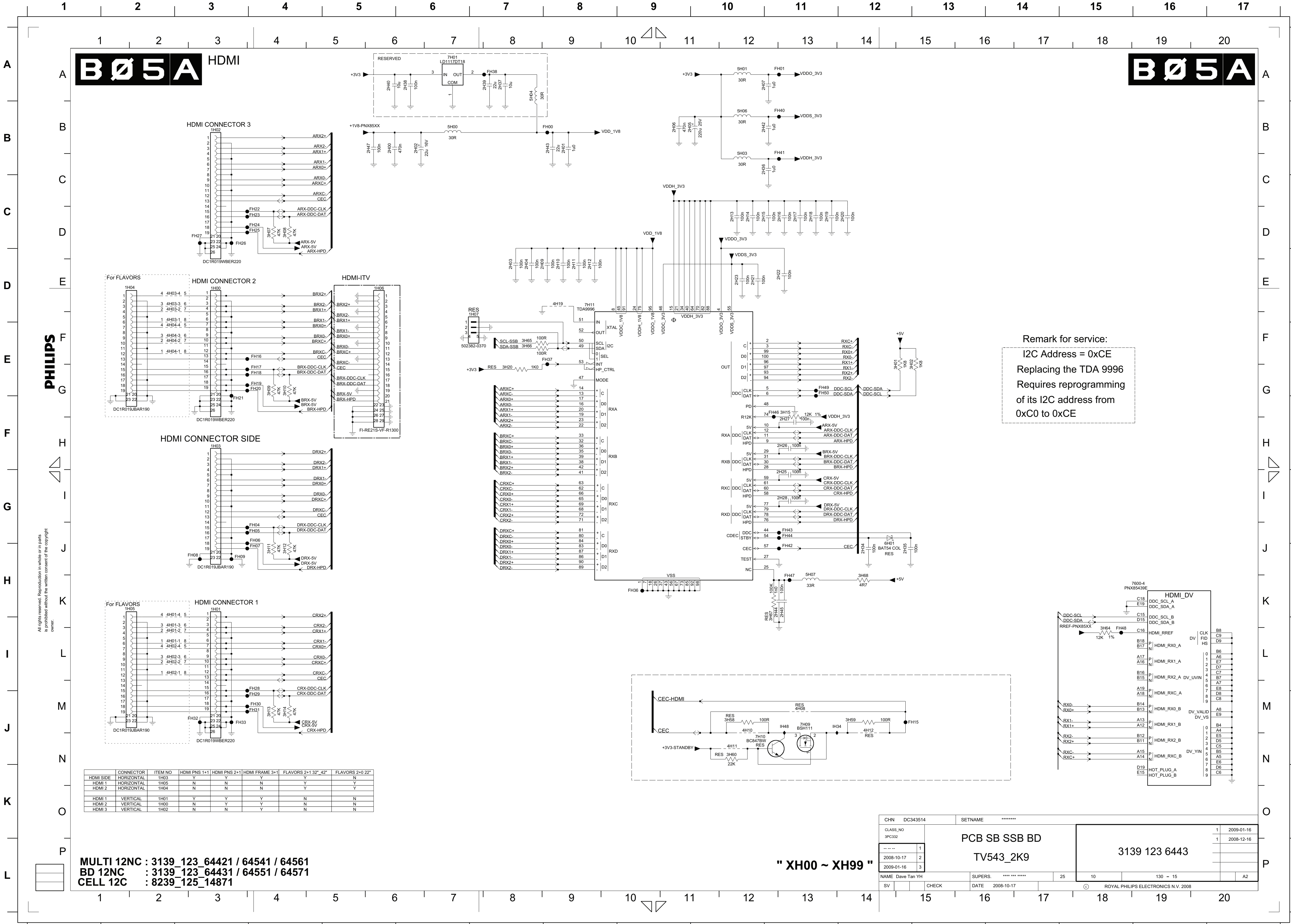
18440_512_090223.eps
090224

SSB: YPbPr / Side I/O / S-video



1G00 C3 1G01 D3 1G02 E3 1G04 F3 1G05 G4 1G06 H4 1G07 I4 1G08 J4 1G09 J5 1G10 A9 1G11 B9 1G12 C9 1G13 C9 1G14 D9 1G15 B15 1G16 C15 1G17 E16 1G18 C2 1G20-1 G3 1G20-2 G3 1G20-3 H3 1G21 I2 1G22 A7 1G25-1 D16 1G25-2 A15 1G25-3 C15 1G30 H11 1G31 F13 1G32 G13 1G33 G13 1G34 H13 1G35 H13 1G36 F4 1G37 F2 1M36 G9 2G00 D4 2G01 C3 2G02 C4 2G03 D3 2G04 E4 2G06 G5 2G07 G5 2G08 H5 2G09 H5 2G10 J4 2G11 J6 2G12 A10 2G13 B10 2G14 C10 2G15 C8 2G16 C10 2G17 D8 2G18 D10 2G19 G8 2G20 G8 2G21 G9 2G22 G9 2G24 I9 2G25 B12 2G26 B13 2G27 B14 2G28 C12 2G29 C13 2G30 C14 2G31 D13 2G32 D12 2G33 D12 2G34 E14 2G35 E14 2G36 E15 2G37 I9 2G41 F14 2G42 G14 2G43 G14 2G44 H14 2G45 H14 2G46 I13 2G47 I14 2G48 H13 2G49 F4 2G50 I7 2G51 I7 3G00 C4 3G02 D4 3G06 G5 3G08 H5 3G10 I4 3G11 J4 3G12 J5 3G13 G9 3G14 G9 3G18 C9 3G19 C10 3G20 B13 3G21 B14 3G22 B12 3G24 C13 3G25 C14 3G26 C12 3G27 H8 3G28-1 D13 3G28-3 E13 3G28-4 D12 3G29 E14 3G30 E13 3G31 E15 3G41 D9 3G42 D10 3G43 H8 3G44 H8 3G45 H8 3G49 H14 3G50 H14 3G56 I14 3G58 J15 3G59 I16 3G60 I17 3G61 J16 3G62-1 J6 3G62-2 J6 3G62-3 J6 3G62-4 J6 3G63 I15 4G00 J3 4G04 F9 4G05 G9 4G07 J3 4G08 E12 4G09 I16 5G00 I9 5G01 I9 5G02 E15 5G31 I13 5G32 I13 6G00 C3 6G01 D3 6G02 E4 6G04 G4 6G05 H4 6G06 I4 6G07 J4 6G08 J5 6G09 A9 6G10 B9 6G11 C9 6G12 C9 6G13 D9 6G14 B14 6G15 C14 6G16 E15 6G17 F13 6G18 G13 6G19 G13 6G20 H13 6G31 I14 6G32 J14 6G33 I17 6G34 J17 6G35 H13 6G36 H12 6G37 F4 7G00-1 B13 7G00-2 C13 7G01 D13 7G31 I15 7G32 I16 FG00 C3 FG01 D3 FG02 E3 FG03 F3 FG04 F3 FG05 G4 FG06 H4 FG07 H3 FG08 I4 FG09 J4 FG10 J3 FG11 J5 FG12 A9 FG13 B9 FG14 C9 FG15 C8 FG16 D8 FG17 G8 FG18 G8 FG19 G9 FG20 G8 FG21 H9 FG22 I9 FG23 I9 FG24 B14 FG25 C14 FG27 C2 FG28 E16 FG29 H9 FG31 H12 FG32 H12 FG33 H12 FG34 H12 FG35 I12 FG36 I12 FG37 I12 FG38 I12 FG39 I12 FG41 E15 FG42 J3 FG43 I16 FG44 J16 FG45 I16 FG47 E12 IG00 C4 IG01 D4 IG02 G6 IG03 H6 IG04 I7 IG05 I7 IG10 C10 IG11 D10 IG12 A13 IG13 A13 IG14 C13 IG15 C13 IG16 B13 IG17 C13 IG18 D13 IG19 E15 IG20 D12 IG21 E14 IG22 E13 IG32 J15

SSB: HDMI



Remark for service:
I2C Address = 0xCE
Replacing the TDA 9996
Requires reprogramming
of its I2C address from
0xC0 to 0xCE

	CONNECTOR	ITEM NO	HDMI PNS 1+1	HDMI PNS 2+1	HDMI FRAME 3+1	FLAVORS 2+1 32"_42"	FLAVORS 2+0 22"
HDMI SIDE	HORIZONTAL	1H03	Y	Y	Y	Y	N
HDMI 1	HORIZONTAL	1H05	N	N	N	Y	Y
HDMI 2	HORIZONTAL	1H04	N	N	N	Y	Y
HDMI 1	VERTICAL	1H01	Y	Y	Y	N	N
HDMI 2	VERTICAL	1H00	N	Y	Y	N	N
HDMI 3	VERTICAL	1H02	N	N	Y	N	N

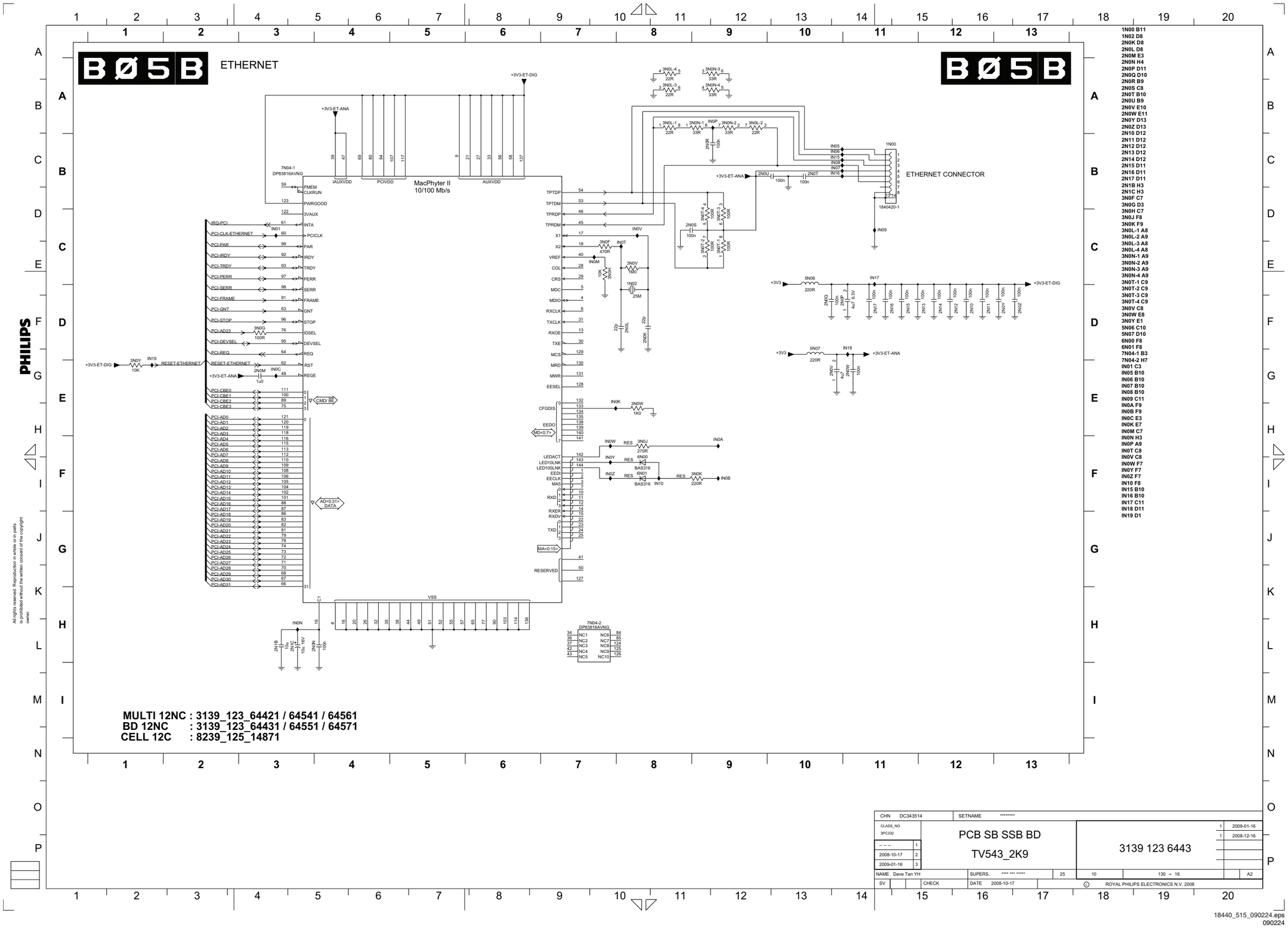
MULTI 12NC : 3139_123_64421 / 64541 / 64561
BD 12NC : 3139_123_64431 / 64551 / 64571
CELL 12C : 8239_125_14871

CHN DC343514	SETNAME ********		
CLASS_NO 3PC332	PCB SB SSB BD TV543_2K9	3139 123 6443	1 2009-01-16 / 1 2008-12-16
-- -- -- 1 / 2008-10-17 2 / 2009-01-16 3			
NAME Dave Tan YH	SUPERS. **** *** *****	25	10 / 130 – 15 / A2
SV / CHECK	DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

1H00 D3
1H01 H3
1H02 A3
1H03 F3
1H04 D2
1H05 H2
1H06 D5
1H07 D7
2H00 B5
2H01 B8
2H02 B6
2H03 D7
2H04 D7
2H05 B10
2H06 B9
2H07 A11
2H09 D8
2H10 D8
2H11 D8
2H12 D8
2H13 C10
2H14 C10
2H15 C11
2H16 C11
2H17 C11
2H18 C11
2H19 C11
2H20 C12
2H21 D10
2H22 D11
2H23 D10
2H25 G11
2H26 F11
2H27 F11
2H28 G11
2H34 H12
2H35 H12
2H36 B11
2H37 A7
2H38 A6
2H39 A7
2H40 A5
2H42 B11
2H43 B8
2H44 H11
2H45 H11
2H47 B5
3H01 E12
3H02 E13
3H07 C4
3H08 C4
3H09 E4
3H10 E4
3H11 G4
3H12 G4
3H13 I4
3H14 I4
3H15 F11
3H20 E7
3H58 J10
3H59 J12
3H60 J10
3H64 I15
3H65 E7
3H66 E7
3H67 H11
3H68 H12
4H01-1 H2
4H01-2 H2
4H01-3 H2
4H01-4 H2
4H02-1 I2
4H02-2 I2
4H02-3 I2
4H02-4 H2
4H03-1 D2
4H03-2 D2
4H03-3 D2
4H03-4 D2
4H04-1 D2
4H04-2 D2
4H04-3 D2
4H04-4 D2
4H08 J11
4H10 J10
4H11 J10
4H12 J12
4H19 D8
5H00 B6
5H01 A10
5H03 B10
5H04 A7
5H06 B10
5H07 H11
6H01 G12
7600-4 H16
7H01 A6
7H09 J11
7H10 J10
7H11 D8
FH00 B8
FH01 A11
FH04 G4
FH05 G4
FH06 G4
FH07 G4
FH08 G3
FH09 G3
FH15 J13
FH16 D4
FH17 E4
FH18 E4
FH19 E4
FH20 E4
FH21 E3
FH22 B4
FH23 C4
FH24 C4
FH25 C4
FH26 C3
FH27 C3
FH28 I4
FH29 I4
FH30 I4
FH31 I4
FH32 I3
FH33 I3
FH36 H9
FH37 E8
FH38 A7
FH40 B11
FH41 B11
FH42 H11
FH43 G11
FH44 G11
FH46 F11
FH47 H11
FH48 I15
FH49 E11
FH50 E11
IH34 J11
IH48 J11

18440_514_090224.eps
090303

SSB: Ethernet



1N00 B11
1N02 D8
2N0K D8
2N0L D8
2N0M E3
2N0N H4
2N0P D11
2N0Q D10
2N0R B9
2N0S C8
2N0T B10
2N0U B9
2N0V E10
2N0W E11
2N0Y D13
2N0Z D13
2N10 D12
2N11 D12
2N12 D12
2N13 D12
2N14 D12
2N15 D11
2N16 D11
2N17 D11
2N1B H3
2N1C H3
3N0F C7
3N0G D3
3N0H C7
3N0J F8
3N0K F9
3N0L-1 A8
3N0L-2 A9
3N0L-3 A8
3N0L-4 A8
3N0N-1 A9
3N0N-2 A9
3N0N-3 A9
3N0N-4 A9
3N0T-1 C9
3N0T-2 C9
3N0T-3 C9
3N0T-4 C9
3N0V C8
3N0W E8
3N0Y E1
5N06 C10
5N07 D10
6N00 F8
6N01 F8
7N04-1 B3
7N04-2 H7
IN01 C3
IN05 B10
IN06 B10
IN07 B10
IN08 B10
IN09 C11
IN0A F9
IN0B F9
IN0C E3
IN0K E7
IN0M C7
IN0N H3
IN0P A9
IN0T C8
IN0V C8
IN0W F7
IN0Y F7
IN0Z F7
IN10 F8
IN15 B10
IN16 B10
IN17 C11
IN18 D11
IN19 D1

SSB: PCMCIA

B05C PCMCIA

POD : SUPPLY / CONTROL

(POD IS THE EQUIVALENT OF COMMON INTERFACE)

CABLE CARD INTERFACE

ROW_A 1K00-A

MPC-01 PBT

1K00-B ROW_B

MPC-01 PBT

MULTI 12NC : 3139_123_64421 / 64541 / 64561
BD 12NC : 3139_123_64431 / 64551 / 64571
CELL 12C : 8239_125_14871

" XK00 ~ XK99 "

CHN DC343514	SETNAME ********		
CLASS_NO 3PC332	PCB SB SSB BD TV543_2K9	3139 123 6443	1 2009-01-16 / 1 2008-12-16
-- -- -- 1 / 2008-10-17 2 / 2009-01-16 3			
NAME Li LingHuan	SUPERS. **** *** ***** 25	10	130 ~ 17 A2
SV CHECK	DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

1K00-A B2
1K00-B D2
2K00 B1
2K01 E10
2K02 A10
2K03 E12
2K04 G12
2K05 C12
2K06 A13
2K07 A9
2K08 A7
2K09 B7
3K00 B1
3K01 C5
3K02 C5
3K03 C5
3K04 C5
3K05 C5
3K06 C5
3K07 C5
3K08 D5
3K09 D5
3K10-1 D5
3K10-2 D5
3K10-3 D5
3K11-1 E5
3K11-2 E5
3K11-3 E5
3K11-4 E5
3K12-1 D8
3K12-2 D8
3K12-3 E8
3K12-4 E8
3K13-1 D8
3K13-2 D8
3K13-3 D8
3K13-4 D8
3K14 E8
3K15 C11
3K16 D3
3K17 E8
3K18 H11
3K19 F4
3K20 E11
3K21 G11
3K22 C11
3K23-1 B9
3K23-2 B9
3K23-3 A9
3K23-4 A9
3K24-1 C9
3K24-2 C9
3K24-3 C9
3K24-4 C9
3K25-3 C9
3K25-4 C9
3K26 B9
3K27 D8
3K28 D5
3K29 A7
3K30 B7
5K00 A9
7K00 F12
7K01 H12
7K02 C12
7K03 A12
7K04 A8
7K05 C8
FK00 G3
FK02 D3
FK04 F4
IK00 C5
IK01 C5
IK02 C5
IK03 C5
IK04 C5
IK05 C5
IK06 C5
IK07 D5
IK08 D5
IK09 D5
IK10 D5
IK11 D5
IK12 D5
IK13 E5
IK14 E5
IK15 E5
IK16 E5
IK17 D3
IK18 A9
IK41 B11
IK45 B11
IK46 D11
IK47 H11

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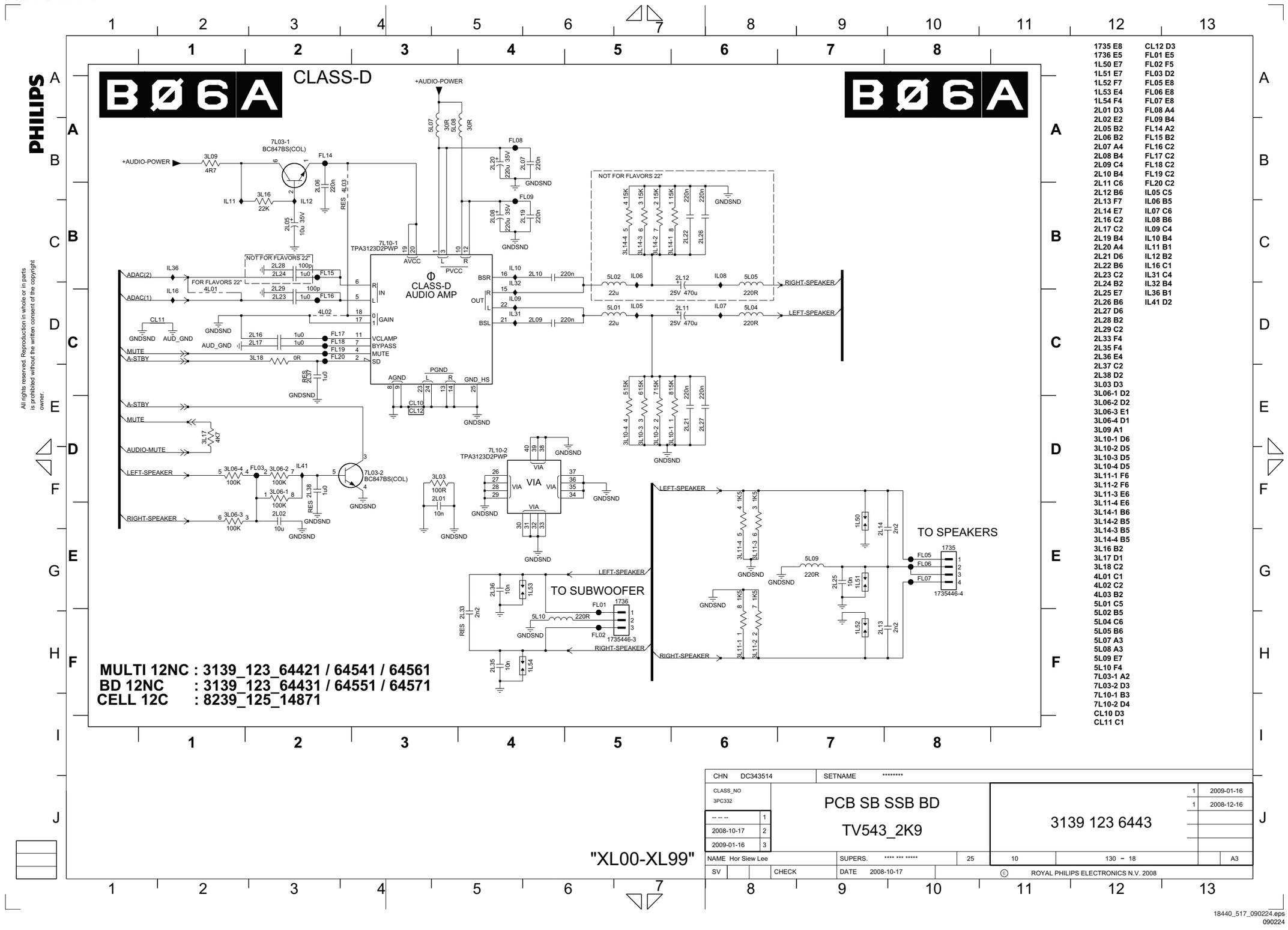
SSB: Class-D



1735 E8
1736 E5
1L50 E7
1L51 E7
1L52 F7
1L53 E4
1L54 F4
2L01 D3
2L02 E2
2L05 B2
2L06 B2
2L07 A4
2L08 B4
2L09 C4
2L10 B4
2L11 C6
2L12 B6
2L13 F7
2L14 E7
2L16 C2
2L17 C2
2L19 B4
2L20 A4
2L21 D6
2L22 B6
2L23 C2
2L24 B2
2L25 E7
2L26 B6
2L27 D6
2L28 B2
2L29 C2
2L33 F4
2L35 F4
2L36 E4
2L37 C2
2L38 D2
3L03 D3
3L06-1 D2
3L06-2 D2
3L06-3 E1
3L06-4 D1
3L09 A1
3L10-1 D6
3L10-2 D5
3L10-3 D5
3L10-4 D5
3L11-1 F6
3L11-2 F6
3L11-3 E6
3L11-4 E6
3L14-1 B6
3L14-2 B5
3L14-3 B5
3L14-4 B5
3L16 B2
3L17 D1
3L18 C2
4L01 C1
4L02 C2
4L03 B2
5L01 C5
5L02 B5
5L04 C6
5L05 B6
5L07 A3
5L08 A3
5L09 E7
5L10 F4
7L03-1 A2
7L03-2 D3
7L10-1 B3
7L10-2 D4
CL10 D3
CL11 C1
CL12 D3
FL01 E5
FL02 F5
FL03 D2
FL05 E8
FL06 E8
FL07 E8
FL08 A4
FL09 B4
FL14 A2
FL15 B2
FL16 C2
FL17 C2
FL18 C2
FL19 C2
FL20 C2
IL05 C5
IL06 B5
IL07 C6
IL08 B6
IL09 C4
IL10 B4
IL11 B1
IL12 B2
IL16 C1
IL31 C4
IL32 B4
IL36 B1
IL41 D2

CHN DC343514		SETNAME ********	
CLASS_NO 3PC332	PCB SB SSB BD TV543_2K9	3139 123 6443	1 2009-01-16 1 2008-12-16
-- -- -- 1 2008-10-17 2 2009-01-16 3			
NAME Hor Siew Lee	SUPERS. **** *** *****	25	10 130 – 18 A3
SV CHECK	DATE 2008-10-17		

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SSB: Display Interface (Common)

PHILIPS

B Ø 7 A DISPLAY INTERFACE (COMMON)

B Ø 7 A

TO B Ø 7 B

RESERVED FOR +5V TCON

+5V — FP84 — 4P26 — 4P28 — 4P39 — FP85 → +VDISP-IN

2P82 1u 22u

+12VD — 4P29 — 4P30 — 4P31

FROM B Ø 7 B

BACKLIGHT-BOOST-IN

RESERVED

+3V3: RES 3P29 10K, 3P30 27K, IP18

+12VD: 3P35 47K, IP16, 7P08-1 BC847BPN(COL), 7P08-2 BC847BPN(COL), IP17, 3P31 12K

IP19, 3P32 4K7, 2P88 470p, RES 3P33 2K2, 7P07 BC847BW

IP20, RES 3P34 1K0

RES 4P40 → BACKLIGHT-BOOST

2P89 1u0, 3P36 15K

3P37 1K0

FROM B Ø 7 B

BACKLIGHT-IN

+3V3: 3P17 4K7, 3P18 220R

RES 4P38, 7P06 BC847BW, IP12

7P05 BC847BW, IP11, IP10 → BACKLIGHT-OUT

MULTI 12NC : 3139_123_64421 / 64541 / 64561
BD 12NC : 3139_123_64431 / 64551 / 64571
CELL 12C : 8239_125_14871

" XP00 ~ XP99 "

2P82 B1
2P88 C2
2P89 D3
3P17 C8
3P18 C9
3P29 C3
3P30 C3
3P31 C4
3P32 C2
3P33 C3
3P34 D3
3P35 C4
3P36 D4
3P37 D5
4P26 A1
4P28 B1
4P29 B1
4P30 B1
4P31 B1
4P38 D8
4P39 B1
4P40 D4
7P05 C9
7P06 D8
7P07 C3
7P08-1 C5
7P08-2 C4
FP84 A1
FP99 A2
IP10 C9
IP11 D9
IP12 D8
IP16 C4
IP17 C4
IP18 C3
IP19 C3
IP20 D2

CHN DC343514		SETNAME ********	
CLASS_NO 3PC332		PCB SB SSB BD TV543_2K9	3139 123 6443
-- - --	1		1 2009-01-16
2008-10-17	2		1 2008-12-16
2009-01-16	3		
NAME Vincent Yap / Lee CW		SUPERS. **** *** *****	25 / 10 / 130 – 19 / A2
SV / CHECK		DATE 2008-10-17	

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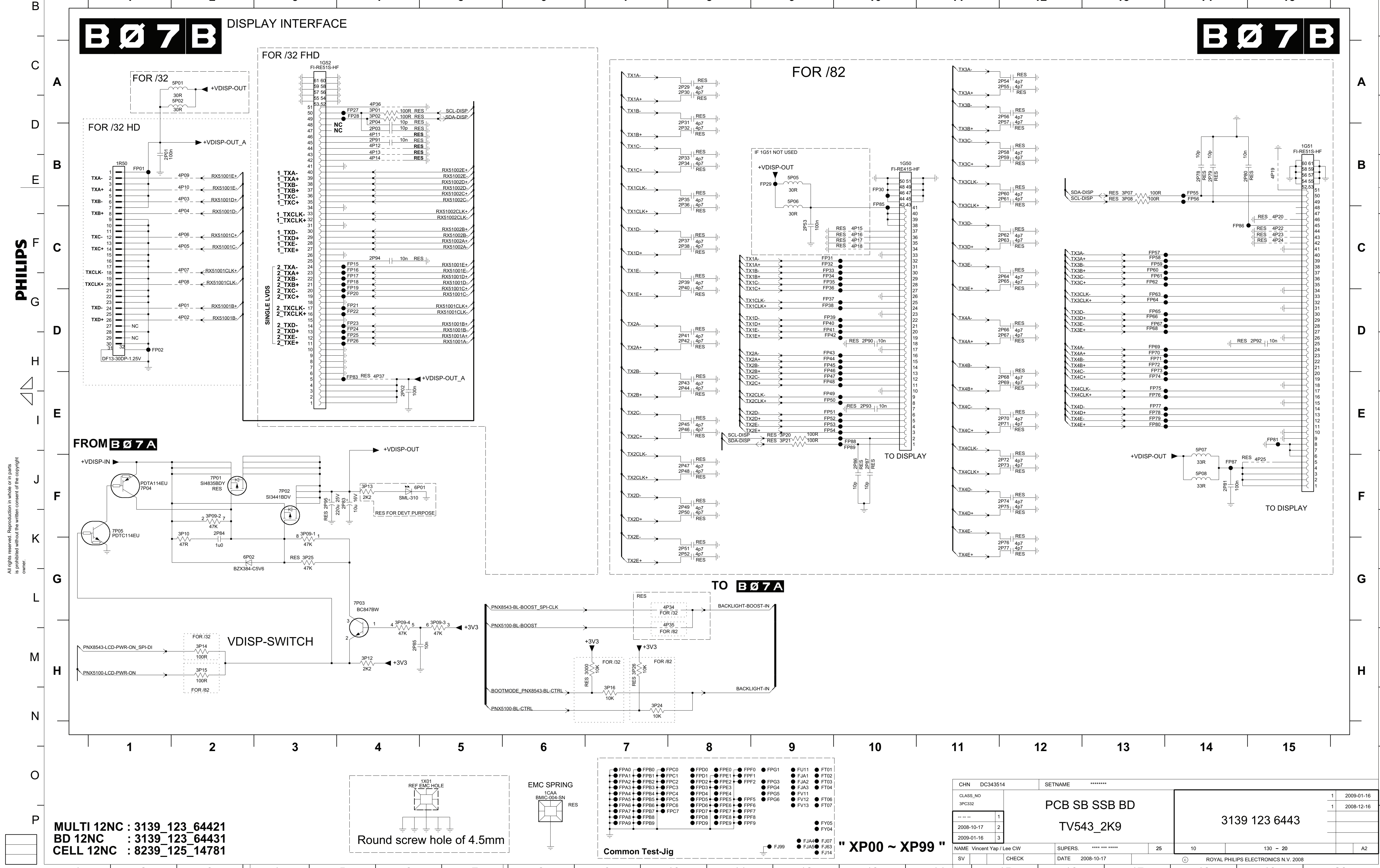
090224

SSB: Display Supply

1G50 B10	2P29 A8	2P37 C8	2P45 E8	2P53 C9	2P61 B12	2P69 E12	2P77 G12	2P86 F10	3000 H7	3P09-4 H4	3P21 E9	4P05 C2	4P13 B4	4P22 C15	5P01 A2	7P01 F2	FP16 C4	FP24 D4	FP32 C9	FP40 D9	FP48 E9	FP56 B14	FP64 D13	FP72 D13	FP80 E13
1G51 B15	2P30 A8	2P38 C8	2P46 E8	2P54 A12	2P62 C12	2P70 E12	2P78 B14	2P87 F10	3P01 A4	3P10 F2	3P24 H7	4P06 C2	4P14 B4	4P23 C15	5P02 A2	7P02 F3	FP17 C4	FP25 D4	FP33 C9	FP41 D9	FP49 E9	FP57 C13	FP65 D13	FP73 E13	FP81 E15
1G52 A3	2P31 B8	2P39 C8	2P47 F8	2P55 A12	2P63 C12	2P71 E12	2P79 B14	2P90 D10	3P02 A4	3P12 H4	3P25 G3	4P07 C2	4P15 C10	4P24 C15	5P05 B9	7P03 G4	FP18 C4	FP26 D4	FP34 C9	FP42 D9	FP50 E9	FP58 C13	FP66 D13	FP74 E13	FP83 E4
1R50 B1	2P32 B8	2P40 D8	2P48 F8	2P56 A12	2P64 C12	2P72 F12	2P80 B14	2P91 B4	3P07 B13	3P13 F4	3P26 H7	4P08 C2	4P16 C10	4P25 F15	5P06 B9	7P04 F1	FP19 D4	FP27 A4	FP35 C9	FP43 D9	FP51 E9	FP59 C13	FP67 D13	FP75 E13	FP85 B10
2P01 B1	2P33 B8	2P41 D8	2P49 F8	2P57 B12	2P65 C12	2P73 F12	2P81 F14	2P92 D15	3P08 B13	3P14 H2	4P01 D2	4P09 B2	4P17 C10	4P34 G8	5P07 E14	7P11 F1	FP20 D4	FP28 A4	FP36 D9	FP44 D9	FP52 E9	FP60 C13	FP68 D13	FP76 E13	FP86 C14
2P02 E4	2P34 B8	2P42 D8	2P50 F8	2P58 B12	2P66 D12	2P74 F12	2P83 F4	2P93 E10	3P09-1 F3	3P15 H2	4P02 D2	4P10 B2	4P18 C10	4P35 H8	5P08 F14	FP01 B1	FP21 D4	FP29 B9	FP37 D9	FP45 D9	FP53 E9	FP61 C13	FP69 D13	FP77 E13	FP87 F14
2P03 B4	2P35 B8	2P43 E8	2P51 G8	2P59 B12	2P67 D12	2P75 F12	2P84 F2	2P94 C4	3P09-2 F2	3P16 H7	4P03 B2	4P11 B4	4P19 B15	4P36 A4	6P01 F4	FP02 D1	FP22 D4	FP30 B10	FP38 D9	FP46 E9	FP54 E9	FP62 C13	FP70 D13	FP78 E13	FP88 E10
2P04 B4	2P36 C8	2P44 E8	2P52 G8	2P60 B12	2P68 E12	2P76 G12	2P85 H4	2P95 F3	3P09-3 H5	3P20 E9	4P04 C2	4P12 B4	4P20 C15	4P37 E4	6P02 G2	FP15 C4	FP23 D4	FP31 C9	FP39 D9	FP47 E9	FP55 B14	FP63 D13	FP71 D13	FP79 E13	FP89 E10



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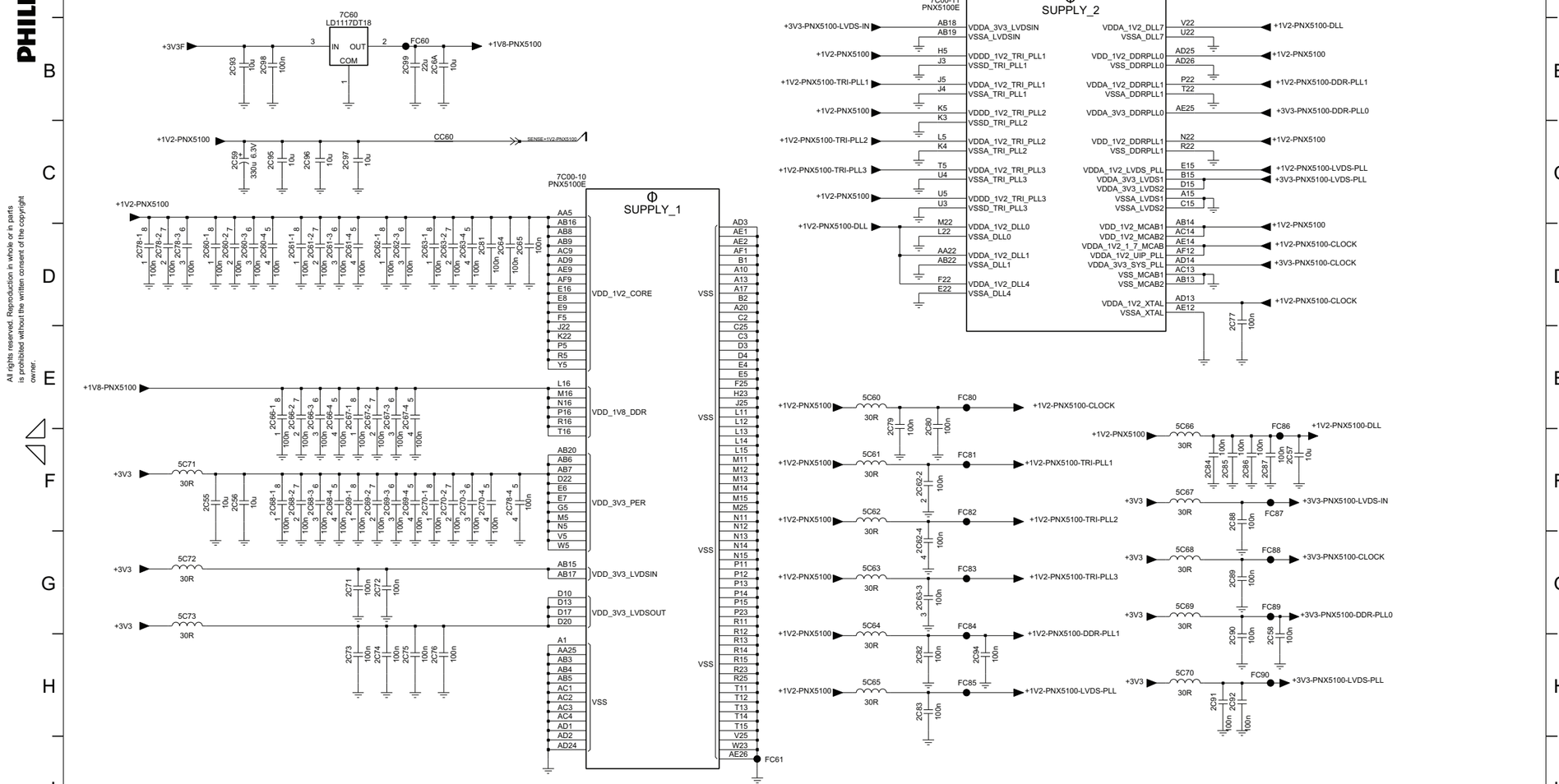
SSB: PNX5100 - Power

B Ø 8 A PNX5100 - POWER **B Ø 8 A**

PHILIPS



" XC50 ~ XC5Z "
" XC60 ~ XC6Z "
" XC70 ~ XC7Z "
" XC80 ~ XC8Z "
" XC90 ~ XC9Z "

MULTI 12NC : 3139_123_64421
BD 12NC : 3139_123_64431
CELL 12NC : 8239_125_14781

CHN DC343514		SETNAME ********	
CLASS_NO 3PC332		PCB SB SSB BD	1 2009-01-16
-- -- --	1	TV543_2K9	1 2008-12-16
2008-10-07	2	3139 123 6443	
2009-01-16	3		
NAME Vincent Yap / Lee CW		SUPERS. **** *** *****	25 / 10 / 130 - 21 / A3
SV / CHECK		DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008

2C55 E2
2C56 E2
2C57 E10
2C58 F10
2C59 B2
2C60-1 C2
2C60-2 C2
2C60-3 C2
2C60-4 C3
2C61-1 C3
2C61-2 C3
2C61-3 C3
2C61-4 C3
2C62-1 C3
2C62-2 E8
2C62-3 C4
2C62-4 E8
2C63-1 C4
2C63-2 C4
2C63-3 F8
2C63-4 C4
2C64 C4
2C65 C5
2C66-1 D3
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2C66-3 D3
2C66-4 D3
2C67-1 D3
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2C67-4 D4
2C68-1 E3
2C68-2 E3
2C68-3 E3
2C68-4 E3
2C69-1 E3
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2C71 F3
2C72 F3
2C73 F3
2C74 F3
2C75 F4
2C76 F4
2C77 D10
2C78-1 C2
2C78-2 C2
2C78-3 C2
2C78-4 E4
2C79 D7
2C80 D8
2C81 C4
2C82 F8
2C83 G8
2C84 E10
2C85 E10
2C86 E10
2C87 E10
2C88 E10
2C89 F10
2C90 F10
2C91 F10
2C92 F10
2C93 B2
2C94 F8
2C95 B3
2C96 B3
2C97 B3
2C98 B3
2C99 B4
5C60 D7
5C61 E7
5C62 E7
5C63 E7
5C64 F7
5C65 F7
5C66 D10
5C67 E10
5C68 E10
5C69 F10
5C70 F10
5C71 E2
5C72 E2
5C73 F2
7C00-10 C5
7C00-11 A8
7C60 A3
CC60 B4
FC60 B4
FC61 G6
FC80 D8
FC81 E8
FC82 E8
FC83 E8
FC84 F8
FC85 F8
FC86 D10
FC87 E10
FC88 E10
FC89 F10
FC90 F10

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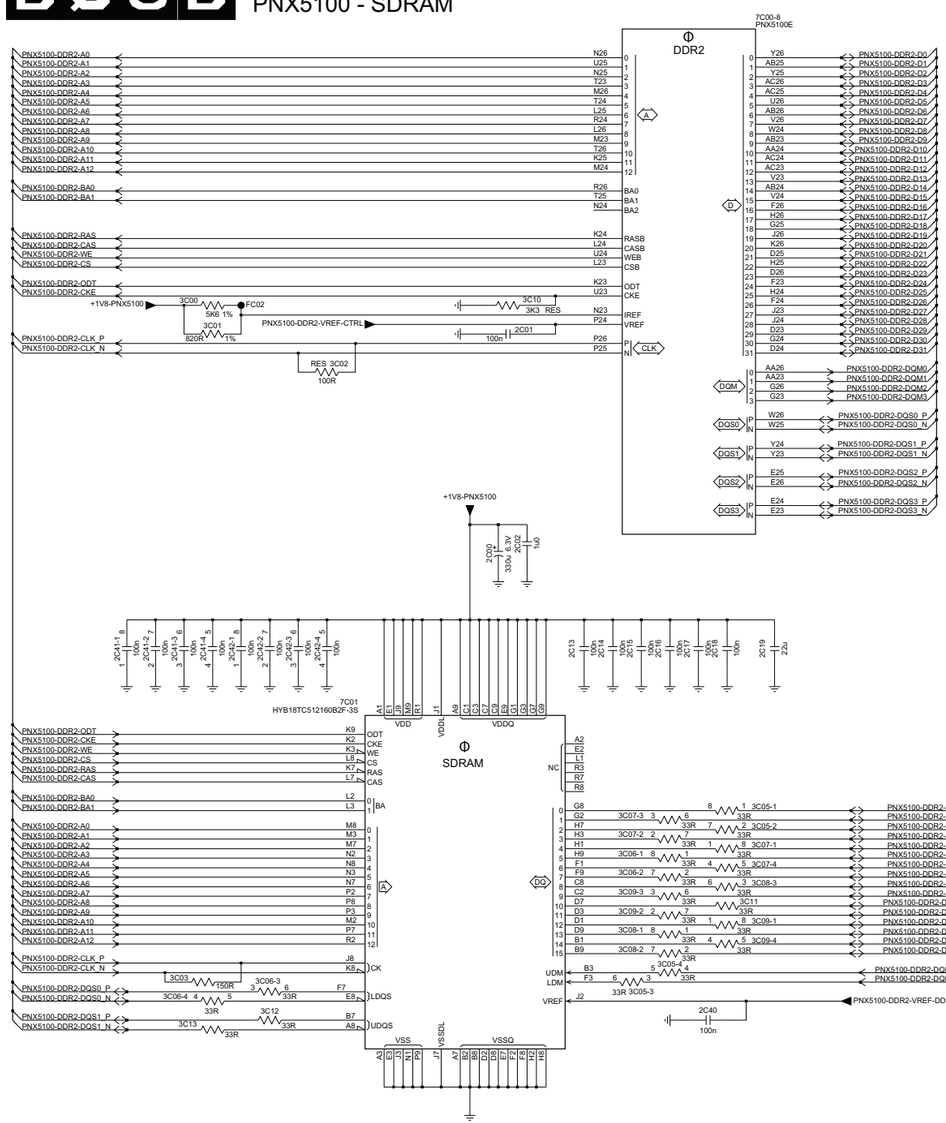
090224

SSB: PNX5100 - SDRAM

PHILIPS

B Ø 8 B

PNX5100 - SDRAM



MULTI 12NC : 3139_123_64421
BD 12NC : 3139_123_64431
CELL 12NC : 8239_125_14781

" XC00 ~ XC0Z "
" XC10 ~ XC1Z "
" XC20 ~ XC2Z "
" XC20 ~ XC2Z "
" XC30 ~ XC3Z "
" XC40 ~ XC4Z "

2C00 E4
2C01 C5
2C02 E5
2C13 F5
2C14 F5
2C15 F5
2C16 F6
2C17 F6
2C18 F6
2C19 F6
2C29 E11
2C30 E11
2C32 F12
2C33 F12
2C34 F12
2C35 F12
2C36 F12
2C38 F13
2C39 H13
2C40 H6
2C41-1 F2
2C41-2 F2
2C41-3 F2
2C41-4 F2
2C42-1 F3
2C42-2 F3
2C42-3 F3
2C42-4 F3
2C43-1 F8
2C43-2 F8
2C43-3 F9
2C43-4 F9
2C44-1 F9
2C44-2 F9
2C44-3 F10
2C44-4 F10
3C00 C2
3C01 C2
3C02 C3
3C03 H2
3C04 H9
3C05-1 G6
3C05-2 G6
3C05-3 H6
3C05-4 H6
3C06-1 G5
3C06-2 G5
3C06-3 H3
3C06-4 H2
3C07-1 G6
3C07-2 G5
3C07-3 G5
3C07-4 G6
3C08-1 H5
3C08-2 H5
3C08-3 G6
3C09-1 H6
3C09-2 H5
3C09-3 G5
3C09-4 H6
3C10 C5
3C11 H6
3C12 H3
3C13 H2
3C20 A10
3C21 B10
3C22 A12
3C23 B12
3C25-1 G13
3C25-2 G13
3C25-3 H12
3C25-4 H13
3C26-1 G13
3C26-2 G12
3C26-3 G12
3C26-4 G13
3C27-1 G12
3C27-2 G12
3C27-3 H9
3C27-4 H9
3C28-1 H13
3C28-2 G12
3C28-3 H12
3C28-4 H13
3C30-1 H12
3C30-2 H12
3C30-3 I9
3C30-4 H9
3C31 G13
3C32 H13
7C00-8 A6
7C01 F3
7C02 F10
FC02 C3
FC05 B12
FC06 B10

CHN DC343514		SETNAME ********	
CLASS_NO 3PC332	PCB SB SSB BD	3139 123 6443	1 2009-01-16
-- -- -- 1	TV543_2K9		1 2008-12-16
2008-10-17 2			
2009-01-16 3			
NAME Vincent Yap / Lee CW	SUPERS. **** *** *****	25 10 130 ~ 22	A2
SV CHECK	DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

SSB: PNX5100 - Control / PCI / Debug

B Ø 8 C

PNX5100 - CONTROL / PCI / DEBUG

B Ø 8 C

PHILIPS

7C00-2 PNX5100E — PCI_XIO

PCI-AD0 AF5 … PCI-AD31 N2

PCI-CBE0 AE5, PCI-CBE1 AD5, PCI-CBE2 AC5, PCI-CBE3 AF4, PCI-PAR W3, PCI-FRAME U2, PCI-IRDY V1, PCI-TRDY V2, PCI-STOP V4, PCI-DEVSEL V3, PCI-AD25 L4, PCI-PERR W1, PCI-SERR W2

REQ AD6, REQA AC7, REQB AD7, GNT AE6, GNTB AF6, INTA M1, CLK L3, PLL_OUT H1

RES 3CFK-1 1 8 100R; RES 3CFK-3 3 6 100R; RES 3CFK-2 2 7 100R; RES 3CFL-1 1 8 100R; RES 3CFL-3 3 6 100R; RES 3CFL-2 2 7 100R; 3CFN 10K → +3V3

ICD1 — PCI-CLK-PNX5100

XIO: SEL M2, M3, M4, N1; ACK AC6; AD25 AF7

3CF1 10K → +3V3

7C00-3 PNX5100E — GPIO

AE24, AF25, AF26, C24, C26, B25, B26, A26, A25, A24, B24, A23, B23, C23, B22, C22

PNX5100-LCD-PWR-ON, PNX5100-BL-BOOST, PNX5100-BL-CTRL

7C00-1 PNX5100E — CONTROL

1CD0 27M; 2CD0 22p; 2CD1 22p

AE13 IN; AF13 OUT; AF14 OUT2; XTAL

UA1 TX AE8 / RX AF8; UA2 TX AC8 / RX AD8

SCL K2 3CD7 100R SCL-SSB; SDA K1 3CD8 100R SDA-SSB

SCL L2 3CD9 100R SCL-AMBI-3V3; SDA L1 3CDA 100R SDA-AMBI-3V3

RESET_SYS AD12 → PNX5100-RST-OUT

NC G22, H22, W22, Y22

RES 3CD3 10K

EJTAG-PNX5100-TCK FCD0 H4 TCK; EJTAG-PNX5100-TDI FCD1 H2 TDI; EJTAG-PNX5100-TDO FCD2 H3 TDO; EJTAG-PNX5100-TMS FCD3 J1 TMS; EJTAG-PNX5100-TRSTn FCD4 J2 TRST

RESET-PNX5100 FCD8 AF24 RESET_IN

R1 OBSERVE

+3V3 AB21 VPP_ID — FCD7

3CD4 10K → +3V3; 3CD2 10K → +3V3

3CD1-1 8 10K, 3CD1-4 5 10K, 3CD1-3 6 10K, 3CD1-2 7 10K → +3V3

RESERVED

1CJ0: EJTAG-PNX5100-TRSTn 1, EJTAG-PNX5100-TDI 2, FCJ0 3, EJTAG-PNX5100-TDO 4, EJTAG-PNX5100-TMS 5, EJTAG-PNX5100-TCK 6, +3V3 7, 4CJ0 8, 9, 10

53261-0871

+3V3 — 3CJ1 10K — PNX5100-RST-OUT

+3V3 — 3CJ0 330R — SML-310 6CJ0 — FCD9

7CJ0 PDTC114EU

7CD0 M24C08-WDW6 C08 OR C16 — (1Kx8) EEPROM

+3V3 → 8; WC 7 → FCD6 → 3CDC 100R → SCL-SSB; SCL 6 → FCDA → 3CDD 100R → SDA-SSB; SDA 5 → FCDB → 100R; NC1 1, NC2 2, E2 ADR 3, 4

WC-EEPROM-PNX5100_SPI-DI — WC-EEPROM-PNX5100_SPI-DI → 3CDB 4K7 → +3V3 → 9CD0

only for DEBUG

MULTI 12NC : 3139_123_64421
BD 12NC : 3139_123_64431
CELL 12NC : 8239_125_14781

" XCD0 ~ XCDZ "
" XCF0 ~ XCFZ "
" XCJ0 ~ XCJZ "

CHN DC343514	SETNAME ********		
CLASS_NO 3PC332	PCB SB SSB BD	1	2009-01-16
-- -- -- 1	TV543_2K9	1	2008-12-16
2008-10-17 2			
2009-01-16 3	3139 123 6443		
NAME Huang Deqiang	SUPERS. **** *** *****	25	10 / 130 – 23 / A3
SV / CHECK	DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

1CD0 D6
1CJ0 D3
2CD0 D6
2CD1 D7
3CD1-1 F6
3CD1-2 F7
3CD1-3 F7
3CD1-4 F6
3CD2 F6
3CD3 E6
3CD4 F6
3CD7 E9
3CD8 E9
3CD9 E9
3CDA E9
3CDB G12
3CDC G10
3CDD G10
3CF1 C5
3CFK-1 B5
3CFK-2 B5
3CFK-3 B5
3CFL-1 C5
3CFL-2 C5
3CFL-3 C5
3CFN C5
3CJ0 F3
3CJ1 F2
4CJ0 E2
6CJ0 F3
7C00-1 D8
7C00-2 A3
7C00-3 B8
7CD0 F9
7CJ0 G3
9CD0 G11
FCD0 E7
FCD1 E7
FCD2 E7
FCD3 E7
FCD4 E7
FCD6 G10
FCD7 F7
FCD8 E7
FCD9 G3
FCDA G10
FCDB G10
FCJ0 E2
ICD1 C4

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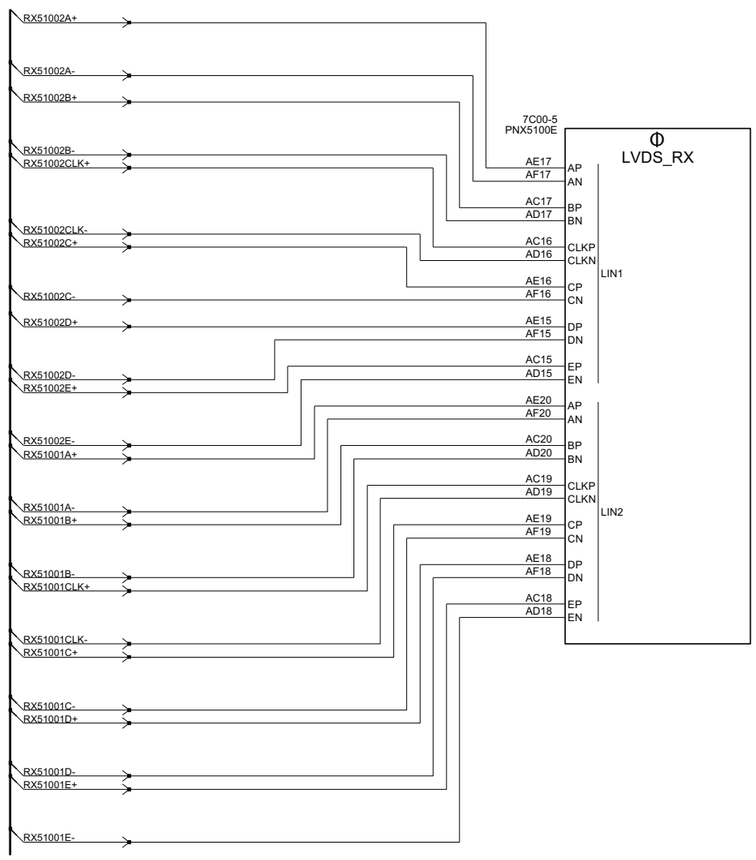
SSB: PNX5100 - LVDS In/Out

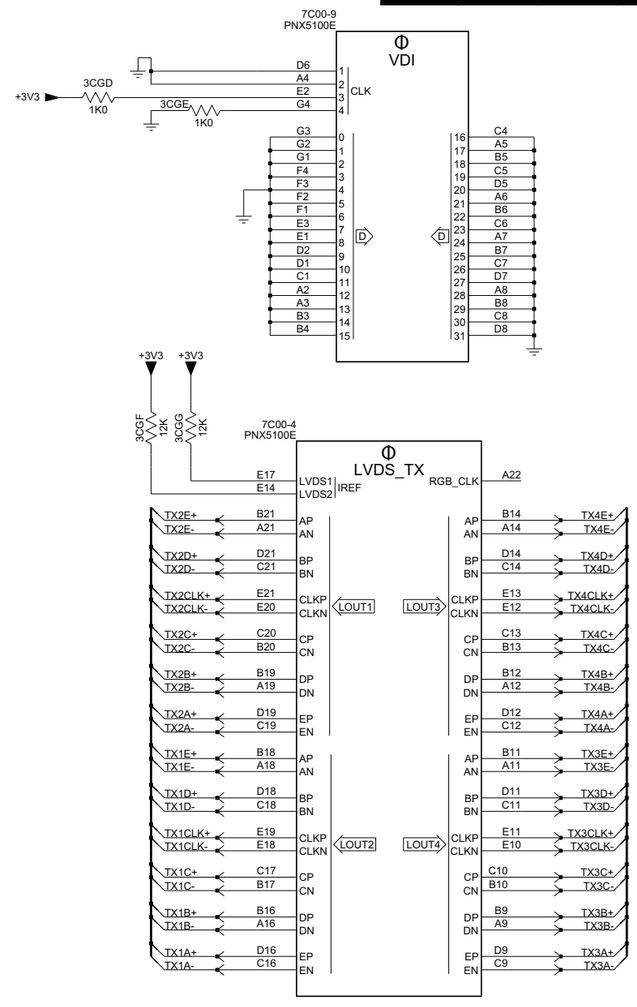
PHILIPS

B Ø 8 D

PNX5100 - LVDS IN / OUT

3CGD B5
3CGE B6
3CGF C6
3CGG C6
7C00-4 C6
7C00-5 B3
7C00-9 A7





MULTI 12NC : 3139_123_64421
BD 12NC : 3139_123_64431
CELL 12NC : 8239_125_14781

" XCG0 ~ XCGZ "

CHN DC343514		SETNAME ********	
CLASS_NO 3PC332	PCB SB SSB BD TV543_2K9	3139 123 6443	1 2009-01-16 1 2008-12-16
– – – 1 2008-10-17 2 2009-01-16 3			
NAME Vincent Yap / Lee CW	SUPERS. **** *** *****	25	10 / 130 – 24 / A3
SV / CHECK	DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

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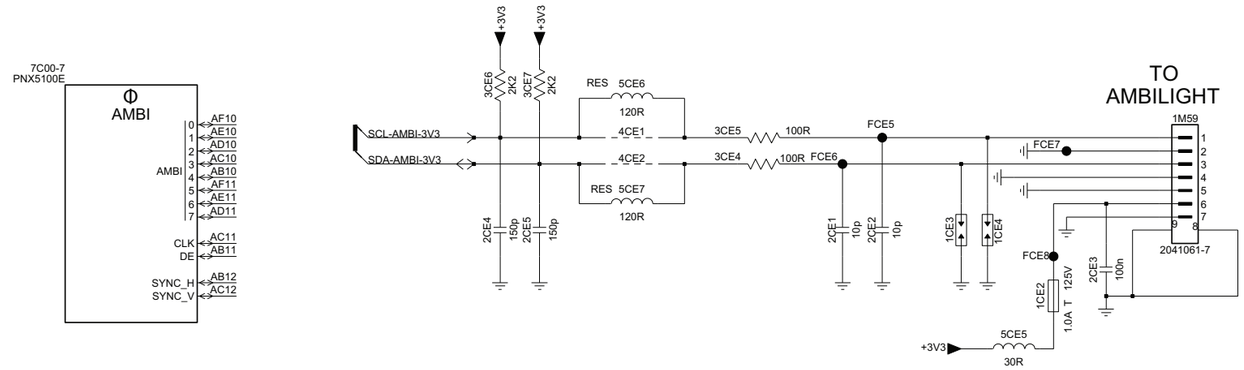
SSB: PNX5100 - AmbiLight

PHILIPS

B Ø 8 E

PNX5100 - AMBILIGHT

B Ø 8 E



1CE2 C7
1CE3 C6
1CE4 C6
1M59 B8
2CE1 C6
2CE2 C6
2CE3 C7
2CE4 C4
2CE5 C4
3CE4 B5
3CE5 B5
3CE6 B4
3CE7 B4
4CE1 B5
4CE2 B5
5CE5 C7
5CE6 B5
5CE7 B5
7C00-7 B1
FCE5 B6
FCE6 B6
FCE7 B7
FCE8 C7

MULTI 12NC : 3139_123_64421
BD 12NC : 3139_123_64431
CELL 12NC : 8239_125_14781

" XCE1~ XCEZ "

CHN DC343514	SETNAME ********		
CLASS_NO 3PC332	PCB SB SSB BD	1	2009-01-16
-- -- -- 1		1	2008-12-16
2008-10-17 2	TV543-2K9	3139 123 6443	
2009-01-16 3			
NAME Vincent Yap / Lee CW	SUPERS. **** *** *****	25	10	130 - 25	A3
SV CHECK	DATE 2008-10-17	© ROYAL PHILIPS ELECTRONICS N.V. 2008	

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SSB: SRP List Explanation

Example

Net Name	*Diagram*
+12-15V	AP1 (4x)
+12-15V	AP4 (4x)
+12-15V	AP5 (12x)
+12-15V	AP6 (4x)
+12-15V	AP7 (8x)
+12V	AP1 (4x)
+12V_NF	AP1 (2x)
+12VAL	AP1 (2x)
+25VLP	AP1 (4x)
+25VLP	AP2 (1x)
+3V3-STANDBY	AP5 (3x)
+400V-F	AP1 (2x)
+400V-F	AP2 (2x)
+400V-F	AP3 (2x)
+5V2	AP1 (6x)
+5V2	AP2 (1x)
+5V2-NF	AP1 (1x)
+5V2-NF	AP2 (1x)
+5V-SW	AP1 (6x)
+5V-SW	AP2 (1x)
+8V6	AP1 (3x)
+AUX	AP1 (2x)
+AUX	AP2 (1x)
+DC-F	AP1 (2x)
+DC-F	AP3 (2x)
+SUB-SPEAKER	AP5 (1x)
+SUB-SPEAKER	AP6 (2x)
-12-15V	AP1 (4x)
-12-15V	AP4 (6x)
-12-15V	AP5 (14x)
-12-15V	AP6 (6x)
-12-15V	AP7 (8x)
AL-OFF	AP1 (2x)
AUDIO-L	AP4 (1x)
AUDIO-L	AP5 (1x)
AUDIO-PROT	AP5 (3x)
AUDIO-R	AP4 (1x)
AUDIO-R	AP5 (1x)
AUDIO-SW	AP5 (1x)
AUDIO-SW	AP7 (1x)
BOOST	AP1 (2x)
CPROT	AP4 (2x)
CPROT	AP5 (1x)
CPROT-SW	AP5 (1x)
CPROT-SW	AP6 (2x)
-DC-F	AP1 (2x)
-DC-F	AP3 (2x)
DC-PROT	AP1 (1x)
DC-PROT	AP5 (2x)
DIM-CONTROL	AP1 (2x)
FEEDBACK+SW	AP6 (2x)
FEEDBACK-L	AP4 (2x)
FEEDBACK-R	AP4 (2x)
FEEDBACK-SW	AP6 (2x)
GND-AL	AP1 (2x)
GNDHA	AP1 (40x)
GNDHA	AP2 (20x)
GNDHA	AP3 (2x)
GNDHOT	AP3 (2x)
GND-L	AP1 (2x)
GND-L	AP4 (4x)
GND-L	AP5 (34x)
GND-LL	AP4 (7x)
GND-LL	AP5 (1x)
GND-LR	AP4 (7x)
GND-LR	AP5 (1x)
GND-LSW	AP5 (1x)
GND-LSW	AP6 (15x)
GND-S	AP1 (11x)
GND-SA	AP4 (8x)
GND-SA	AP5 (2x)
GND-SA	AP6 (8x)
GND-SA	AP7 (6x)
GNDscrew	AP3 (2x)
GNDscrew	AP5 (2x)
GND-SSB	AP5 (3x)
GND-SSP	AP1 (51x)
GND-SSP	AP2 (15x)
IN+SW	AP6 (2x)
IN-L	AP4 (2x)
IN-R	AP4 (2x)
IN-SW	AP6 (2x)
INV-MUTE	AP4 (1x)
INV-MUTE	AP5 (1x)
INV-MUTE	AP6 (1x)
LEFT-SPEAKER	AP4 (1x)
LEFT-SPEAKER	AP5 (1x)
MUTE	AP4 (2x)
MUTE	AP5 (1x)
MUTE	AP6 (2x)
ON-OFF	AP1 (3x)
OUT	AP6 (1x)
OUT	AP7 (2x)
OUTN	AP6 (1x)
OUTN	AP7 (1x)
POWER-GOOD	AP1 (2x)
POWER-OK-PLATFORM	AP1 (2x)
RIGHT-SPEAKER	AP4 (1x)
RIGHT-SPEAKER	AP5 (1x)
SOUND-ENABLE	AP5 (3x)
STANDBY	AP1 (5x)
STANDBY	AP2 (1x)
-SUB-SPEAKER	AP5 (1x)
-SUB-SPEAKER	AP6 (2x)
V-CLAMP	AP1 (1x)
V-CLAMP	AP3 (2x)

1.1. Introduction

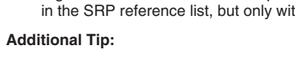
SRP (Service Reference Protocol) is a software tool that creates a list with all references to signal lines. The list contains references to the signals within all schematics of a PWB. It replaces the text references currently printed next to the signal names in the schematics. These printed references are created manually and are therefore not guaranteed to be 100% correct. In addition, in the current crowded schematics there is often none or very little place for these references.
Some of the PWB schematics will use SRP while others will still use the manual references. Either there will be an SRP reference list for a schematic, or there will be printed references in the schematic.

1.2. Non-SRP Schematics

There are several different signals available in a schematic:

1.2.1. Power Supply Lines

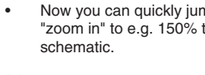
All power supply lines are available in the supply line overview (see chapter 6). In the schematics (see chapter 7) is not indicated where supplies are coming from or going to.
It is however indicated if a supply is incoming (created elsewhere), or outgoing (created or adapted in the current schematic).



Outgoing Incoming

1.2.2. Normal Signals

For normal signals, a schematic reference (e.g. B14b) is placed next to the signals.

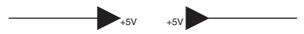


1.2.3. Grounds

For normal and special grounds (e.g. GNDHOT or GND3V3 etc.), nothing is indicated.

1.3. SRP Schematics

SRP is a tool, which automatically creates a list with signal references, indicating on which schematic the signals are used.
A reference is created for all signals indicated with an SRP symbol, these symbols are:



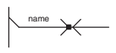
Power supply line.

Stand alone signal or switching line (used as less as possible).

Signal line into a wire tree.

Switching line into a wire tree.

Bi-directional line (e.g. SDA) into a wire tree.



Signal line into a wire tree, its direction depends on the circuit (e.g. ingoing for PDP, outgoing for LCD sets).

Remarks:

- When there is a black dot on the "signal direction arrow" it is an SRP symbol, so there will be a reference to the signal name in the SRP list.
- All references to normal grounds (Ground symbols without additional text) are not listed in the reference list, this to keep it concise.
- Signals that are not used in multiple schematics, but only once or several times in the same schematic, are included in the SRP reference list, but only with one reference.

Additional Tip:

When using the PDF service manual file, you can very easily search for signal names and follow the signal over all the schematics. In Adobe PDF reader:

- Select the signal name you want to search for, with the "Select text" tool.
- Copy and paste the signal name in the "Search PDF" tool.
- Search for all occurrences of the signal name.
- Now you can quickly jump between the different occurrences and follow the signal over all schematics. It is advised to "zoom in" to e.g. 150% to see clearly, which text is selected. Then you can zoom out, to get an overview of the complete schematic.

PS. It is recommended to use at least Adobe PDF (reader) version 6.x, due to better search possibilities in this version.

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Personal Notes:

SSB: SRP List Part 1

Netname	Diagram
+12V	B01A (1×)
+12V	B01B (4×)
+12V	B02A (3×)
+12V	B04A (1×)
+12VD	B01B (1×)
+12VD	B07A (2×)
+12VF	B01A (2×)
+1V2	B02A (2×)
+1V2A	B02A (2×)
+1V2-PNX5100	B01B (1×)
+1V2-PNX5100	B03H (1×)
+1V2-PNX5100	B08A (15×)
+1V2-PNX5100-CLOCK	B08A (3×)
+1V2-PNX5100-DDR-PLL1	B08A (2×)
+1V2-PNX5100-DLL	B08A (3×)
+1V2-PNX5100-LVDS-PLL	B08A (2×)
+1V2-PNX5100-TRI-PLL1	B08A (2×)
+1V2-PNX5100-TRI-PLL2	B08A (2×)
+1V2-PNX5100-TRI-PLL3	B08A (2×)
+1V2-PNX85XX	B01A (2×)
+1V2-PNX85XX	B02A (1×)
+1V2-PNX85XX	B03A (14×)
+1V2-PNX85XX	B03H (1×)
+1V2-STANDBY	B01B (2×)
+1V2-STANDBY	B03A (1×)
+1V8-PNX5100	B08A (2×)
+1V8-PNX5100	B08B (5×)
+1V8-PNX85XX	B03A (3×)
+1V8-PNX85XX	B03F (5×)
+1V8-PNX85XX	B05A (1×)
+3V3	B01A (1×)
+3V3	B01B (1×)
+3V3	B02A (2×)
+3V3	B03A (14×)
+3V3	B03C (1×)
+3V3	B03D (1×)
+3V3	B03G (11×)
+3V3	B03H (1×)
+3V3	B04A (1×)
+3V3	B04B (3×)
+3V3	B04C (2×)
+3V3	B05A (3×)
+3V3	B05B (2×)
+3V3	B05C (3×)
+3V3	B07A (2×)
+3V3	B07B (4×)
+3V3	B08A (7×)
+3V3	B08C (13×)
+3V3	B08D (2×)
+3V3	B08E (3×)
+3V3_BUF	B05C (5×)
+3V3A	B02A (3×)
+3V3B	B02A (6×)
+3V3D	B02A (2×)
+3V3E	B02A (2×)
+3V3-ET-ANA	B05B (4×)
+3V3-ET-DIG	B05B (3×)
+3V3F	B01A (2×)
+3V3F	B03A (1×)
+3V3F	B08A (1×)
+3V3-NAND	B03G (5×)
+3V3-PER	B03A (2×)
+3V3-PER	B03G (12×)
+3V3-PER	B03H (3×)
+3V3-PNX5100-CLOCK	B08A (2×)
+3V3-PNX5100-DDR-PLL0	B08A (2×)
+3V3-PNX5100-LVDS-IN	B08A (2×)
+3V3-PNX5100-LVDS-PLL	B08A (2×)
+3V3-STANDBY	B01B (2×)
+3V3-STANDBY	B03A (1×)
+3V3-STANDBY	B03G (3×)
+3V3-STANDBY	B03H (12×)
+3V3-STANDBY	B04A (3×)
+3V3-STANDBY	B05A (1×)
+5V	B01B (1×)
+5V	B02A (2×)
+5V	B03D (1×)
+5V	B03G (4×)
+5V	B03H (1×)
+5V	B04A (1×)
+5V	B04B (6×)
+5V	B04C (1×)
+5V	B05A (2×)
+5V	B05C (1×)
+5V	B07A (1×)
+5V-TUN	B01B (1×)
+5V5-TUN	B02A (1×)
+5V-TUNER	B02A (10×)
+AUDIO-POWER	B01B (1×)
+AUDIO-POWER	B03C (2×)
+AUDIO-POWER	B06A (2×)
+VDISP-IN	B07A (1×)
+VDISP-IN	B07B (1×)
+VDISP-OUT	B07B (4×)
+VDISP-OUT_A	B07B (4×)
3V3-ST	B01A (1×)
3V3-ST	B01B (1×)
ADAC(1)	B03D (2×)
ADAC(1)	B06A (1×)
ADAC(2)	B03D (2×)
ADAC(2)	B06A (1×)
ADAC(3)	B03C (2×)
ADAC(3)	B03D (2×)
ADAC(4)	B03C (2×)
ADAC(4)	B03D (2×)
ADAC(5)	B03C (1×)
ADAC(5)	B03D (1×)
ADAC(6)	B03C (1×)
ADAC(6)	B03D (1×)
ADAC(7)	B03C (1×)
ADAC(7)	B03D (3×)
ADAC(8)	B03C (1×)
ADAC(8)	B03D (3×)
ALE	B03H (1×)
ANTENNA-CTRL	B02A (2×)
ANTENNA-SUPPLY	B02A (2×)
A-PLOP	B03C (1×)
A-PLOP	B04B (1×)
A-PLOP	B04C (2×)
AP-SCART-OUT-L	B04B (5×)
AP-SCART-OUT-R	B04B (5×)
ARX0-	B05A (2×)
ARX0+	B05A (2×)
ARX1-	B05A (2×)
ARX1+	B05A (2×)
ARX2-	B05A (2×)
ARX2+	B05A (3×)
ARX-5V	B05A (2×)
ARXC-	B05A (2×)
ARXC+	B05A (2×)
ARX-DDC-CLK	B05A (2×)
ARX-DDC-DAT	B05A (2×)
ARX-HPD	B05A (2×)
A-STBY	B03C (1×)
A-STBY	B06A (2×)
AUD_GND	B03D (4×)
AUD_GND	B06A (2×)
AUDIO-CL-L	B03C (1×)
AUDIO-CL-L	B04B (1×)
AUDIO-CL-R	B03C (1×)
AUDIO-CL-R	B04B (1×)
AUDIO-IN1-L	B03D (1×)
AUDIO-IN1-L	B04A (1×)
AUDIO-IN1-L	B04B (2×)
AUDIO-IN1-R	B03D (1×)
AUDIO-IN1-R	B04A (1×)
AUDIO-IN1-R	B04B (2×)
AUDIO-IN2-L	B03D (1×)
AUDIO-IN2-L	B04B (2×)
AUDIO-IN2-R	B03D (1×)
AUDIO-IN2-R	B04B (2×)
AUDIO-IN3-L	B03D (1×)
AUDIO-IN3-L	B04C (1×)
AUDIO-IN3-R	B03D (1×)
AUDIO-IN3-R	B04C (1×)
AUDIO-IN4-L	B03D (1×)
AUDIO-IN4-L	B04C (1×)
AUDIO-IN4-R	B03D (1×)
AUDIO-IN4-R	B04C (1×)
AUDIO-IN5-L	B03D (1×)
AUDIO-IN5-L	B04C (2×)
AUDIO-IN5-R	B03D (1×)
AUDIO-IN5-R	B04C (2×)
AUDIO-MUTE	B03H (2×)
AUDIO-MUTE	B04C (1×)
AUDIO-MUTE	B06A (1×)
AUDIO-OUT-L	B03C (1×)
AUDIO-OUT-L	B04C (1×)
AUDIO-OUT-R	B03C (1×)
AUDIO-OUT-R	B04C (1×)
AUDIO-RESET	B03C (2×)
AUDIO-RESET	B03H (2×)
AUDIO-VDD	B03C (7×)
AV1-BLK	B03H (1×)
AV1-BLK	B04B (1×)
AV1-BLK-BO	B04A (1×)
AV1-BLK-BO	B04B (2×)
AV1-STATUS	B03H (1×)
AV1-STATUS	B04A (1×)
AV1-STATUS	B04B (2×)
AV2-BLK_LCD-SDA	B03H (1×)
AV2-BLK_LCD-SDA	B04A (1×)
AV2-BLK_LCD-SDA	B04B (2×)
AV2-PB_SC2-B	B03E (1×)
AV2-PB_SC2-B	B04B (2×)
AV2-PR_SC2-R	B03E (1×)
AV2-PR_SC2-R	B04B (2×)
AV2-STATUS	B03H (1×)
AV2-STATUS	B04B (2×)
AV2-Y_SC2-G	B03E (1×)
AV2-Y_SC2-G	B04B (2×)
AV3-PB	B03E (1×)
AV3-PB	B04C (1×)
AV3-PR	B03E (1×)
AV3-PR	B04C (1×)
AV3-Y	B03E (1×)
AV3-Y	B04C (1×)
BACKLIGHT-BOOST	B01B (1×)
BACKLIGHT-BOOST	B07A (1×)
BACKLIGHT-BOOST-IN	B07A (1×)
BACKLIGHT-BOOST-IN	B07B (1×)
BACKLIGHT-IN	B07A (1×)
BACKLIGHT-IN	B07B (1×)
BACKLIGHT-OUT	B01B (1×)
BACKLIGHT-OUT	B07A (1×)
BOLT-ON-IO	B03H (2×)
BOLT-ON-IO	B04A (1×)
BOLT-ON-TS-ENn	B03H (2×)
BOOTMODE_PNX8543-BL-CTRL	B03G (1×)
BOOTMODE_PNX8543-BL-CTRL	B07B (1×)
BRX0-	B05A (2×)
BRX0+	B05A (2×)
BRX1-	B05A (2×)
BRX1+	B05A (2×)
BRX2-	B05A (2×)
BRX2+	B05A (2×)
BRX-5V	B05A (3×)
BRXC-	B05A (2×)
BRXC+	B05A (2×)
BRX-DDC-CLK	B05A (2×)
BRX-DDC-DAT	B05A (2×)
BRX-HPD	B05A (2×)
B-VGA	B03E (1×)
B-VGA	B04C (1×)
CA-ADDEN	B03B (1×)
CA-ADDEN	B05C (3×)
CA-CD1	B03B (1×)
CA-CD1	B05C (2×)
CA-CD2	B03B (1×)
CA-CD2	B05C (2×)
CA-CE1	B05C (2×)
CA-CE2	B05C (2×)
CA-DATADIR	B03B (1×)
CA-DATADIR	B05C (1×)
CA-DATAEN	B03B (1×)
CA-DATAEN	B05C (1×)
CA-INPACK	B05C (2×)
CA-IORD	B05C (2×)
CA-IOWR	B05C (2×)
CA-MDI0	B03B (1×)
CA-MDI0	B05C (1×)
CA-MDI1	B03B (1×)
CA-MDI1	B05C (1×)
CA-MDI2	B03B (1×)
CA-MDI2	B05C (1×)
CA-MDI3	B03B (1×)
CA-MDI3	B05C (1×)
CA-MDI4	B03B (1×)
CA-MDI4	B05C (1×)
CA-MDI5	B03B (1×)
CA-MDI5	B05C (1×)
CA-MDI6	B03B (1×)
CA-MDI6	B05C (1×)
CA-MDI7	B03B (1×)
CA-MDI7	B05C (1×)
CA-MDO(0)	B03B (1×)
CA-MDO(0)	B05C (1×)
CA-MDO(1)	B03B (1×)
CA-MDO(1)	B05C (1×)
CA-MDO(2)	B03B (1×)
CA-MDO(2)	B05C (1×)
CA-MDO(3)	B03B (1×)
CA-MDO(3)	B05C (1×)
CA-MDO(4)	B03B (1×)
CA-MDO(4)	B05C (1×)
CA-MDO(5)	B03B (1×)
CA-MDO(5)	B05C (1×)
CA-MDO(6)	B03B (1×)
CA-MDO(6)	B05C (1×)
CA-MDO(7)	B03B (1×)
CA-MDO(7)	B05C (1×)
CA-MICLK	B03B (1×)
CA-MICLK	B05C (1×)
CA-MISTRT	B03B (1×)
CA-MISTRT	B05C (1×)
CA-MIVAL	B03B (1×)
CA-MIVAL	B05C (1×)
CA-MOCLK_VS2	B03B (2×)
CA-MOCLK_VS2	B05C (1×)
CA-MOSTRT	B03B (1×)
CA-MOSTRT	B05C (1×)
CA-MOVAL	B03B (1×)
CA-MOVAL	B05C (1×)
CA-OE	B05C (2×)
CA-REG	B05C (2×)
CA-RST	B03B (1×)
CA-RST	B05C (1×)
CA-VS1	B03B (1×)
CA-VS1	B05C (2×)
CA-WAIT	B05C (3×)
CA-WE	B05C (2×)
CEC	B05A (6×)
CEC-HDMI	B03H (2×)
CEC-HDMI	B05A (1×)
CLK-SCL	B04C (1×)
CLK-SCL	B05A (2×)
CRX0-	B05A (2×)
CRX0+	B05A (2×)
CRX1-	B05A (2×)
CRX1+	B05A (2×)
CRX2-	B05A (2×)
CRX2+	B05A (2×)
CRX-5V	B05A (3×)
CRXC-	B05A (2×)
CRXC+	B05A (2×)
CRX-DDC-CLK	B05A (2×)
CRX-DDC-DAT	B05A (2×)
CRX-HPD	B05A (2×)
CVBS	B03E (1×)
CVBS	B04C (1×)
CVBS1	B03B (1×)
CVBS1	B05C (3×)
CVBS1	B03B (1×)
CVBS2	B05C (2×)
CVBS2	B03B (1×)
CVBS-OUT-SC1	B05C (2×)
CVBS-OUT-SC1-PBS	B05C (2×)
CVBS-OUT-SC1-PBS	B05C (2×)
CVBS-OUT-SC2	B03B (1×)
CVBS-OUT-SC2	B05C (1×)
CVBS-TER-OUT	B03B (1×)
CVBS-TER-OUT	B05C (1×)
DATA-SDA	B05C (2×)
DDC-SCL	B05C (2×)
DDC-SDA	B03B (1×)
DDR2-A0	B05C (1×)
DDR2-A1	B03B (1×)
DDR2-A10	B05C (1×)
DDR2-A11	B03B (1×)
DDR2-A12	B05C (1×)
DDR2-A2	B03B (1×)
DDR2-A3	B05C (1×)
DDR2-A4	B03B (1×)
DDR2-A5	B05C (1×)
DDR2-A6	B03B (1×)
DDR2-A7	B05C (1×)
DDR2-A8	B03B (1×)
DDR2-A9	B05C (1×)
DDR2-BA0	B03F (3×)
DDR2-BA1	B03F (3×)
DDR2-BA2	B03F (3×)
DDR2-CAS	B03F (3×)
DDR2-CKE	B03F (3×)
DDR2-CLK_N	B03F (3×)
DDR2-CLK_P	B03F (3×)
DDR2-CS	B03F (3×)
DDR2-D0	B03F (2×)
DDR2-D1	B03F (2×)
DDR2-D10	B03F (2×)
DDR2-D11	B03F (2×)
DDR2-D12	B03F (2×)
DDR2-D13	B03F (2×)
DDR2-D14	B03F (2×)
DDR2-D15	B03F (2×)
DDR2-D16	B03F (2×)
DDR2-D17	B03F (2×)
DDR2-D18	B03F (2×)
DDR2-D19	B03F (2×)
DDR2-D2	B03F (2×)
DDR2-D20	B03F (2×)
DDR2-D21	B03F (2×)
DDR2-D22	B03F (2×)
DDR2-D23	B03F (2×)
DDR2-D24	B03F (2×)
DDR2-D25	B03F (2×)
DDR2-D26	B03F (2×)
DDR2-D27	B03F (2×)
DDR2-D28	B03F (2×)
DDR2-D29	B03F (2×)
DDR2-D3	B03F (2×)
DDR2-D30	B03F (2×)
DDR2-D31	B03F (2×)
DDR2-D4	B03F (2×)
DDR2-D5	B03F (2×)
DDR2-D6	B03F (2×)
DDR2-D7	B03F (2×)
DDR2-D8	B03F (2×)
DDR2-D9	B03F (2×)
DDR2-DQM0	B03F (2×)
DDR2-DQM1	B03F (2×)
DDR2-DQM2	B03F (2×)
DDR2-DQM3	B03F (2×)
DDR2-DQS0_N	B03F (2×)
DDR2-DQS0_P	B03F (2×)
DDR2-DQS1_N	B03F (2×)
DDR2-DQS1_P	B03F (2×)
DDR2-DQS2_N	B03F (2×)
DDR2-DQS2_P	B03F (2×)
DDR2-DQS3_N	B03F (2×)
DDR2-DQS3_P	B03F (2×)
DDR2-ODT	B03F (3×)
DDR2-RAS	B03F (3×)
DDR2-VREF-CTRL	B03F (2×)
DDR2-VREF-DDR	B03F (3×)
DDR2-WE	B03F (3×)
DETECT1	B01A (1×)
DETECT1	B03H (3×)
DETECT-12V	B01B (1×)
DETECT-12V	B03H (1×)
DETECT2	B03H (3×)
DRX0-	B05A (2×)
DRX0+	B05A (2×)
DRX1-	B05A (2×)
DRX1+	B05A (2×)
DRX2-	B05A (2×)
DRX2+	B05A (2×)
DRX-5V	B05A (3×)
DRXC-	B05A (2×)
DRXC+	B05A (2×)
DRX-DDC-CLK	B05A (2×)
DRX-DDC-DAT	B05A (2×)
DRX-HPD	B03H (1×)
EA	B03G (1×)
EJTAG-DETECT	B03H (2×)
EJTAG-DETECT	B08C (2×)
EJTAG-PNX5100-TCK	B08C (2×)
EJTAG-PNX5100-TDI	B08C (2×)
EJTAG-PNX5100-TDO	B08C (2×)
EJTAG-PNX5100-TMS	B08C (2×)
EJTAG-PNX5100-TRSTn	B03G (3×)
EJTAG-TCK	B03G (3×)
EJTAG-TDI	B03G (3×)
EJTAG-TDO	B03G (3×)
EJTAG-TMS	B03G (3×)
EJTAG-TRSTN	B03G (3×)
ENABLE-3V3	B01A (1×)
ENABLE-3V3	B01B (1×)
ENABLE-3V3	B03H (2×)
FE-CLK	B02A (1×)
FE-CLK	B03B (1×)
FE-DATA(0)	B02A (1×)
FE-DATA(0)	B03B (1×)
FE-DATA(1)	B02A (1×)
FE-DATA(1)	B03B (1×)
FE-DATA(2)	B02A (1×)
FE-DATA(2)	B03B (1×)
FE-DATA(3)	B02A (1×)
FE-DATA(3)	B03B (1×)
FE-DATA(4)	B02A (1×)
FE-DATA(4)	B03B (1×)
FE-DATA(5)	B02A (1×)
FE-DATA(5)	B03B (1×)
FE-DATA(6)	B02A (1×)
FE-DATA(6)	B03B (1×)
FE-DATA(7)	B02A (1×)
FE-DATA(7)	B03B (1×)
FE-ERR	B03B (2×)
FE-SOP	B02A (1×)
FE-SOP	B03B (1×)
FE-VALID	B02A (1×)
FE-VALID	B03B (1×)
FRONT-C	B03E (1×)
FRONT-C	B04C (2×)
FRONT-Y_CVBS	B03E (1×)
FRONT-Y_CVBS	B04C (2×)
GND-SIG	B01A (12×)
GNDSND	B01B (2×)
GNDSND	B06A (20×)
G-VGA	B03E (1×)
G-VGA	B04C (1×)
HP_LOUT	B03C (1×)
HP_LOUT	B04C (1×)
HP_ROUT	B03C (1×)
HP_ROUT	B04C (1×)
H-SYNC-VGA	B03E (1×)
H-SYNC-VGA	B04C (1×)
IF-AGC	B02A (2×)
IF-N	B02A (2×)
IF-P	B02A (2×)
IRQ-CA	B03B (1×)
IRQ-CA	B03G (2×)
IRQ-CA	B05C (2×)
IRQ-PCI	B03G (1×)
IRQ-PCI	B05B (1×)
KEYBOARD	B03G (1×)
KEYBOARD	B03H (2×)
LAMP-ON-OUT	B01B (1×)
LAMP-ON-OUT	B03H (2×)
LCD-SCL	B03H (2×)
LCD-SCL	B04A (1×)
LCD-SCL	B04C (1×)
LED1	B03G (2×)
LED1	B03H (1×)
LED2	B03G (2×)
LED2	B03H (1×)
LEFT-SPEAKER	B06A (4×)
LIGHT-SENSOR	B03G (2×)
LIGHT-SENSOR	B03H (1×)
MDO0	B05C (4×)
MDO1	B05C (4×)
MDO2	B05C (4×)
MDO3	B05C (4×)
MDO4	B05C (4×)
MDO5	B05C (4×)
MDO6	B05C (4×)
MDO7	B05C (4×)
MOCLKA	B05C (4×)
MOSTRTA	B05C (4×)
MOVALA	B05C (4×)
MUTE	B06A (2×)
NAND-AD(0)	B03G (2×)
NAND-AD(1)	B03G (2×)
NAND-AD(2)	B03G (2×)
NAND-AD(3)	B03G (2×)
NAND-AD(4)	B03G (2×)
NAND-AD(5)	B03G (2×)
NAND-AD(6)	B03G (2×)
NAND-AD(7)	B03G (2×)
NAND-ALE	B03G (2×)
NAND-CLE	B03G (2×)
NAND-REn	B03G (2×)
NAND-WEn	B03G (2×)
PBS_SPI_DI	B04A (2×)
PBS-I2C-SCL	B03G (2×)
PBS-I2C-SCL	B04A (2×)
PCI-AD0	B03G (2×)
PCI-AD0	B05B (1×)
PCI-AD0	B05C (1×)
PCI-AD0	B08C (1×)
PCI-AD1	B03G (2×)
PCI-AD1	B05B (1×)
PCI-AD1	B05C (1×)
PCI-AD1	B08C (1×)
PCI-AD10	B03G (1×)
PCI-AD10	B05B (1×)
PCI-AD10	B05C (1×)
PCI-AD10	B08C (1×)
PCI-AD11	B03G (1×)
PCI-AD11	B05B (1×)
PCI-AD11	B05C (1×)
PCI-AD11	B08C (1×)
PCI-AD12	B03G (1×)
PCI-AD12	B05B (1×)
PCI-AD12	B05C (1×)
PCI-AD12	B08C (1×)
PCI-AD13	B03G (1×)
PCI-AD13	B05B (1×)
PCI-AD13	B05C (1×)
PCI-AD13	B08C (1×)
PCI-AD14	B03G (1×)
PCI-AD14	B05B (1×)
PCI-AD14	B05C (1×)
PCI-AD14	B08C (1×)
PCI-AD15	B03G (1×)
PCI-AD15	B05B (1×)
PCI-AD15	B08C (1×)
PCI-AD16	B03G (1×)
PCI-AD16	B05B (1×)
PCI-AD16	B05C (1×)
PCI-AD16	B08C (1×)
PCI-AD17	B03G (1×)
PCI-AD17	B05B (1×)
PCI-AD17	B05C (1×)
PCI-AD17	B08C (1×)
PCI-AD18	B03G (1×)
PCI-AD18	B05B (1×)
PCI-AD18	B05C (1×)
PCI-AD18	B08C (1×)
PCI-AD19	B03G (1×)
PCI-AD19	B05B (1×)
PCI-AD19	B05C (1×)

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SSB: SRP List Part 2

Netname	Diagram
PCI-AD19	B08C (1×)
PCI-AD2	B03G (1×)
PCI-AD2	B05B (1×)
PCI-AD2	B05C (1×)
PCI-AD2	B08C (1×)
PCI-AD20	B03G (1×)
PCI-AD20	B05B (1×)
PCI-AD20	B08C (1×)
PCI-AD21	B03G (1×)
PCI-AD21	B05B (1×)
PCI-AD21	B08C (1×)
PCI-AD22	B03G (1×)
PCI-AD22	B05B (1×)
PCI-AD22	B05C (1×)
PCI-AD22	B08C (1×)
PCI-AD23	B03G (1×)
PCI-AD23	B05B (2×)
PCI-AD23	B05C (1×)
PCI-AD23	B08C (1×)
PCI-AD24	B03G (3×)
PCI-AD24	B05B (1×)
PCI-AD24	B05C (1×)
PCI-AD24	B08C (1×)
PCI-AD25	B03G (2×)
PCI-AD25	B05B (1×)
PCI-AD25	B05C (1×)
PCI-AD25	B08C (2×)
PCI-AD26	B03G (2×)
PCI-AD26	B05B (1×)
PCI-AD26	B05C (1×)
PCI-AD26	B08C (1×)
PCI-AD27	B03G (2×)
PCI-AD27	B05B (1×)
PCI-AD27	B05C (1×)
PCI-AD27	B08C (1×)
PCI-AD28	B03G (2×)
PCI-AD28	B05B (1×)
PCI-AD28	B05C (1×)
PCI-AD28	B08C (1×)
PCI-AD29	B03G (2×)
PCI-AD29	B05B (1×)
PCI-AD29	B05C (1×)
PCI-AD29	B08C (1×)
PCI-AD3	B03G (1×)
PCI-AD3	B05B (1×)
PCI-AD3	B05C (1×)
PCI-AD3	B08C (1×)
PCI-AD30	B03G (2×)
PCI-AD30	B05B (1×)
PCI-AD30	B05C (1×)
PCI-AD30	B08C (1×)
PCI-AD31	B03G (2×)
PCI-AD31	B05B (1×)
PCI-AD31	B05C (1×)
PCI-AD31	B08C (1×)
PCI-AD4	B03G (1×)
PCI-AD4	B05B (1×)
PCI-AD4	B05C (1×)
PCI-AD4	B08C (1×)
PCI-AD5	B03G (1×)
PCI-AD5	B05B (1×)
PCI-AD5	B05C (1×)
PCI-AD5	B08C (1×)
PCI-AD6	B03G (1×)
PCI-AD6	B05B (1×)
PCI-AD6	B05C (1×)
PCI-AD6	B08C (1×)
PCI-AD7	B03G (1×)
PCI-AD7	B05B (1×)
PCI-AD7	B05C (1×)
PCI-AD7	B08C (1×)
PCI-AD8	B03G (1×)
PCI-AD8	B05B (1×)
PCI-AD8	B05C (1×)
PCI-AD8	B08C (1×)
PCI-AD9	B03G (1×)
PCI-AD9	B05B (1×)
PCI-AD9	B05C (1×)
PCI-AD9	B08C (1×)
PCI-CBE0	B03G (1×)
PCI-CBE0	B05B (1×)
PCI-CBE0	B08C (1×)
PCI-CBE1	B03G (2×)
PCI-CBE1	B05B (1×)
PCI-CBE1	B05C (1×)
PCI-CBE1	B08C (1×)
PCI-CBE2	B03G (2×)
PCI-CBE2	B05B (1×)
PCI-CBE2	B05C (1×)
PCI-CBE2	B08C (1×)
PCI-CBE3	B03G (1×)
PCI-CBE3	B05B (1×)
PCI-CBE3	B08C (1×)
PCI-CLK-ETHERNET	B03G (1×)
PCI-CLK-ETHERNET	B05B (1×)
PCI-CLK-OUT	B03G (2×)
PCI-CLK-PNX5100	B03G (1×)
PCI-CLK-PNX5100	B08C (1×)
PCI-CLK-PNX8543	B03G (2×)
PCI-DEVSEL	B03G (2×)
PCI-DEVSEL	B05B (1×)
PCI-DEVSEL	B08C (1×)
PCI-FRAME	B03G (2×)
PCI-FRAME	B05B (1×)
PCI-FRAME	B08C (1×)
PCI-GNT	B03G (2×)
PCI-GNT	B05B (1×)
PCI-IRDY	B03G (2×)
PCI-IRDY	B05B (1×)
PCI-IRDY	B08C (1×)
PCI-PAR	B03G (1×)
PCI-PAR	B05B (1×)
PCI-PAR	B08C (1×)
PCI-PERR	B03G (2×)
PCI-PERR	B05B (1×)
PCI-PERR	B08C (1×)
PCI-REQ	B03G (2×)
PCI-REQ	B05B (1×)
PCI-SERR	B03G (2×)
PCI-SERR	B05B (1×)
PCI-SERR	B08C (1×)
PCI-STOP	B03G (2×)
PCI-STOP	B05B (1×)
PCI-STOP	B08C (1×)
PCI-TRDY	B03G (2×)
PCI-TRDY	B05B (1×)
PCI-TRDY	B08C (1×)
PCMCIA-A0	B03G (2×)
PCMCIA-A1	B05C (2×)
PCMCIA-A10	B05C (2×)
PCMCIA-A11	B05C (2×)
PCMCIA-A12	B05C (2×)
PCMCIA-A13	B05C (2×)
PCMCIA-A14	B05C (2×)
PCMCIA-A2	B05C (2×)
PCMCIA-A3	B05C (2×)
PCMCIA-A4	B05C (2×)
PCMCIA-A5	B05C (2×)
PCMCIA-A6	B05C (2×)
PCMCIA-A7	B05C (2×)
PCMCIA-A8	B05C (2×)
PCMCIA-A9	B05C (2×)
PCMCIA-D0	B05C (2×)
PCMCIA-D1	B05C (2×)
PCMCIA-D2	B05C (2×)
PCMCIA-D3	B05C (2×)
PCMCIA-D4	B05C (2×)
PCMCIA-D5	B05C (2×)
PCMCIA-D6	B05C (2×)
PCMCIA-D7	B05C (2×)
PCMCIA-VCC-VPP	B05C (5×)
PDN	B02A (2×)
PDP	B02A (2×)
PI_3	B03H (2×)
PNX5100-BL-BOOST	B07B (1×)
PNX5100-BL-BOOST	B08C (1×)
PNX5100-BL-CTRL	B07B (1×)
PNX5100-BL-CTRL	B08C (1×)
PNX5100-DDR2-A0	B08B (3×)
PNX5100-DDR2-A1	B08B (3×)
PNX5100-DDR2-A10	B08B (3×)
PNX5100-DDR2-A11	B08B (3×)
PNX5100-DDR2-A12	B08B (3×)
PNX5100-DDR2-A2	B08B (3×)
PNX5100-DDR2-A3	B08B (3×)
PNX5100-DDR2-A4	B08B (3×)
PNX5100-DDR2-A5	B08B (3×)
PNX5100-DDR2-A6	B08B (3×)
PNX5100-DDR2-A7	B08B (3×)
PNX5100-DDR2-A8	B08B (3×)
PNX5100-DDR2-A9	B08B (3×)
PNX5100-DDR2-BA0	B08B (3×)
PNX5100-DDR2-BA1	B08B (3×)
PNX5100-DDR2-CAS	B08B (3×)
PNX5100-DDR2-CKE	B08B (3×)
PNX5100-DDR2-CLK_N	B08B (3×)
PNX5100-DDR2-CLK_P	B08B (3×)
PNX5100-DDR2-CS	B08B (3×)
PNX5100-DDR2-D0	B08B (2×)
PNX5100-DDR2-D1	B08B (2×)
PNX5100-DDR2-D10	B08B (2×)
PNX5100-DDR2-D11	B08B (2×)
PNX5100-DDR2-D12	B08B (2×)
PNX5100-DDR2-D13	B08B (2×)
PNX5100-DDR2-D14	B08B (2×)
PNX5100-DDR2-D15	B08B (2×)
PNX5100-DDR2-D16	B08B (2×)
PNX5100-DDR2-D17	B08B (2×)
PNX5100-DDR2-D18	B08B (2×)
PNX5100-DDR2-D19	B08B (2×)
PNX5100-DDR2-D2	B08B (2×)
PNX5100-DDR2-D20	B08B (2×)
PNX5100-DDR2-D21	B08B (2×)
PNX5100-DDR2-D22	B08B (2×)
PNX5100-DDR2-D23	B08B (2×)
PNX5100-DDR2-D24	B08B (2×)
PNX5100-DDR2-D25	B08B (2×)
PNX5100-DDR2-D26	B08B (2×)
PNX5100-DDR2-D27	B08B (2×)
PNX5100-DDR2-D28	B08B (2×)
PNX5100-DDR2-D29	B08B (2×)
PNX5100-DDR2-D3	B08B (2×)
PNX5100-DDR2-D30	B08B (2×)
PNX5100-DDR2-D31	B08B (2×)
PNX5100-DDR2-D4	B08B (2×)
PNX5100-DDR2-D5	B08B (2×)
PNX5100-DDR2-D6	B08B (2×)
PNX5100-DDR2-D7	B08B (2×)
PNX5100-DDR2-D8	B08B (2×)
PNX5100-DDR2-D9	B08B (2×)
PNX5100-DDR2-DQM0	B08B (2×)
PNX5100-DDR2-DQM1	B08B (2×)
PNX5100-DDR2-DQM2	B08B (2×)
PNX5100-DDR2-DQM3	B08B (2×)
PNX5100-DDR2-DQS0_N	B08B (2×)
PNX5100-DDR2-DQS0_P	B08B (2×)
PNX5100-DDR2-DQS1_N	B08B (2×)
PNX5100-DDR2-DQS1_P	B08B (2×)
PNX5100-DDR2-DQS2_N	B08B (2×)
PNX5100-DDR2-DQS2_P	B08B (2×)
PNX5100-DDR2-DQS3_N	B08B (2×)
PNX5100-DDR2-DQS3_P	B08B (2×)
PNX5100-DDR2-ODT	B08B (3×)
PNX5100-DDR2-RAS	B08B (3×)
PNX5100-DDR2-VREF-CTRL	B08B (2×)
PNX5100-DDR2-VREF-DDR	B08B (3×)
PNX5100-DDR2-WE	B08B (3×)
PNX5100-LCD-PWR-ON	B07B (1×)
PNX5100-LCD-PWR-ON	B08C (1×)
PNX5100-RST-OUT	B08C (2×)
PNX8543-BL-BOOST_SPI-CLK	B03G (2×)
PNX8543-BL-BOOST_SPI-CLK	B04A (1×)
PNX8543-BL-BOOST_SPI-CLK	B07B (1×)
PNX8543-LCD-PWR-ON_SPI-DI	B03G (2×)
PNX8543-LCD-PWR-ON_SPI-DI	B04A (1×)
PNX8543-LCD-PWR-ON_SPI-DI	B07B (1×)
POWER-OK	B01B (1×)
POWER-OK	B03H (2×)
PROT-DC	B01A (1×)
PROT-DC	B01B (1×)
PSEN	B03H (1×)
RC	B03G (1×)
RC	B03H (1×)
RC	B04A (1×)
RC_uP	B03H (2×)
RC1	B03H (1×)
RC1	B04A (1×)
RC1	B04C (1×)
RC2	B03H (1×)
RC2	B04A (1×)
RC2	B04C (1×)
REGIMBEAU_CVBS-SWITCH	B03H (2×)
REGIMBEAU_CVBS-SWITCH	B04B (1×)
RESET-ETHERNET	B03H (2×)
RESET-ETHERNET	B05B (2×)
RESET-NVM	B03H (3×)
RESET-PNX5100	B03H (2×)
RESET-PNX5100	B08C (1×)
RESET-STBY	B03H (2×)
RESET-SYSTEM	B02A (1×)
RESET-SYSTEM	B03G (1×)
RESET-SYSTEM	B03H (3×)
RF-AGC	B02A (2×)
RIGHT-SPEAKER	B06A (4×)
RREF-PNX85XX	B03A (2×)
RREF-PNX85XX	B05A (1×)
R-VGA	B03E (1×)
R-VGA	B04C (1×)
RX0-	B05A (2×)
RX0+	B05A (2×)
RX1-	B05A (2×)
RX1+	B05A (2×)
RX2-	B05A (2×)
RX2+	B05A (2×)
RX51001A-	B03B (1×)
RX51001A-	B07B (1×)
RX51001A-	B08D (1×)
RX51001A+	B03B (1×)
RX51001A+	B07B (1×)
RX51001A+	B08D (1×)
RX51001B-	B03B (1×)
RX51001B-	B07B (2×)
RX51001B-	B08D (1×)
RX51001B+	B03B (1×)
RX51001B+	B07B (2×)
RX51001B+	B08D (1×)
RX51001C-	B03B (1×)
RX51001C-	B07B (2×)
RX51001C-	B08D (1×)
RX51001C+	B03B (1×)
RX51001C+	B07B (2×)
RX51001C+	B08D (1×)
RX51001CLK-	B03B (1×)
RX51001CLK-	B07B (2×)
RX51001CLK-	B08D (1×)
RX51001CLK+	B03B (1×)
RX51001CLK+	B07B (2×)
RX51001CLK+	B08D (1×)
RX51001D-	B03B (1×)
RX51001D-	B07B (2×)
RX51001D-	B08D (1×)
RX51001D+	B03B (1×)
RX51001D+	B07B (2×)
RX51001D+	B08D (1×)
RX51001E-	B03B (1×)
RX51001E-	B07B (2×)
RX51001E-	B08D (1×)
RX51001E+	B03B (1×)
RX51001E+	B07B (2×)
RX51001E+	B08D (1×)
RX51002A-	B03B (1×)
RX51002A-	B07B (1×)
RX51002A-	B08D (1×)
RX51002A+	B03B (1×)
RX51002A+	B07B (1×)
RX51002A+	B08D (1×)
RX51002B-	B03B (1×)
RX51002B-	B07B (1×)
RX51002B-	B08D (1×)
RX51002B+	B03B (1×)
RX51002B+	B07B (1×)
RX51002B+	B08D (1×)
RX51002C-	B03B (1×)
RX51002C-	B07B (1×)
RX51002C-	B08D (1×)
RX51002C+	B03B (1×)
RX51002C+	B07B (1×)
RX51002C+	B08D (1×)
RX51002CLK-	B03B (1×)
RX51002CLK-	B07B (1×)
RX51002CLK-	B08D (1×)
RX51002CLK+	B03B (1×)
RX51002CLK+	B07B (1×)
RX51002CLK+	B08D (1×)
RX51002D-	B03B (1×)
RX51002D-	B07B (1×)
RX51002D-	B08D (1×)
RX51002D+	B03B (1×)
RX51002D+	B07B (1×)
RX51002D+	B08D (1×)
RX51002E-	B03B (1×)
RX51002E-	B07B (1×)
RX51002E-	B08D (1×)
RX51002E+	B03B (1×)
RX51002E+	B07B (1×)
RX51002E+	B08D (1×)
RXC-	B05A (2×)
RXC+	B05A (2×)
RXD	B03G (1×)
RXD	B04A (1×)
RXD-BOLT-ON	B04A (3×)
RXD-MIPS	B03G (2×)
RXD-MIPS	B04A (2×)
RXD-MIPS2	B03G (2×)
RXD-UP	B03G (1×)
RXD-UP	B03H (2×)
RXD-UP	B04A (2×)
SC1-B	B03E (1×)
SC1-B	B04A (1×)
SC1-B	B04B (2×)
SC1-G	B03E (1×)
SC1-G	B04A (1×)
SC1-G	B04B (2×)
SC1-R	B03E (1×)
SC1-R	B04A (1×)
SC1-R	B04B (1×)
SCL1	B03G (2×)
SCL2	B03G (3×)
SCL3	B03G (2×)
SCL-AMBI-3V3	B08C (1×)
SCL-AMBI-3V3	B08E (1×)
SCL-DISP	B03G (1×)
SCL-DISP	B07B (3×)
SCL-SET	B01B (1×)
SCL-SET	B03G (3×)
SCL-SSB	B02A (1×)
SCL-SSB	B03G (2×)
SCL-SSB	B04A (1×)
SCL-SSB	B05A (1×)
SCL-SSB	B08C (2×)
SCL-TUNER	B02A (2×)
SCL-UP-MIPS	B03G (3×)
SCL-UP-MIPS	B03H (2×)
SDA1	B03G (2×)
SDA2	B03G (3×)
SDA3	B03G (2×)
SDA-AMBI-3V3	B08C (1×)
SDA-AMBI-3V3	B08E (1×)
SDA-DISP	B03G (1×)
SDA-DISP	B07B (3×)
SDA-SET	B01B (1×)
SDA-SET	B03G (3×)
SDA-SSB	B02A (1×)
SDA-SSB	B03G (2×)
SDA-SSB	B04A (1×)
SDA-SSB	B05A (1×)
SDA-SSB	B08C (2×)
SDA-TUNER	B02A (2×)
SDA-UP-MIPS	B03G (3×)
SDA-UP-MIPS	B03H (2×)
SDM	B03H (3×)
SENSE+1V2-PNX5100	B01B (2×)
SENSE+1V2-PNX5100	B08A (4×)
SENSE+1V2-PNX85XX	B01A (1×)
SENSE+1V2-PNX85XX	B03A (1×)
SIF	B02A (1×)
SIF	B03E (1×)
SIF-GND	B02A (1×)
SIF-GND	B03E (2×)
SPDIF-IN	B03D (1×)
SPDIF-IN	B04A (1×)
SPDIF-OUT	B04B (1×)
SPDIF-OUT	B04C (1×)
SPDIF-OUT-1	B03D (1×)
SPDIF-OUT-1	B04C (1×)
SPI-CLK	B03H (2×)
SPI-CSB	B03H (2×)
SPI-DO_I2C-SDA	B03G (2×)
SPI-DO_I2C-SDA	B04A (1×)
SPI-PROG	B03H (3×)
SPI-SDI	B03H (2×)
SPI-SDO	B03H (2×)
SPI-WP	B03H (3×)
STANDBY	B01B (1×)
STANDBY	B03H (2×)
STANDBY	B04A (1×)
TX1A-	B07B (2×)
TX1A-	B08D (1×)
TX1A+	B07B (2×)
TX1A+	B08D (1×)
TX1B-	B07B (2×)
TX1B-	B08D (1×)
TX1B+	B07B (2×)
TX1B+	B08D (1×)
TX1C-	B07B (2×)
TX1C-	B08D (1×)
TX1C+	B07B (2×)
TX1C+	B08D (1×)
TX1CLK-	B07B (2×)
TX1CLK-	B08D (1×)
TX1CLK+	B07B (2×)
TX1CLK+	B08D (1×)
TX1D-	B07B (2×)
TX1D-	B08D (1×)
TX1D+	B07B (2×)
TX1D+	B08D (1×)
TX1E-	B07B (2×)
TX1E-	B08D (1×)
TX1E+	B07B (2×)
TX1E+	B08D (1×)
TX2A-	B07B (2×)
TX2A-	B08D (1×)
TX2A+	B07B (2×)
TX2A+	B08D (1×)
TX2B-	B07B (2×)
TX2B-	B08D (1×)
TX2B+	B07B (2×)
TX2B+	B08D (1×)
TX2C-	B07B (2×)
TX2C-	B08D (1×)
TX2C+	B07B (2×)
TX2C+	B08D (1×)
TX2CLK-	B07B (2×)
TX2CLK-	B08D (1×)
TX2CLK+	B07B (2×)
TX2CLK+	B08D (1×)
TX2D-	B07B (2×)
TX2D-	B08D (1×)
TX2D+	B07B (2×)
TX2D+	B08D (1×)
TX2E-	B07B (2×)
TX2E-	B08D (1×)
TX2E+	B07B (2×)
TX2E+	B08D (1×)
TX3A-	B07B (2×)
TX3A-	B08D (1×)
TX3A+	B07B (2×)
TX3A+	B08D (1×)
TX3B-	B07B (2×)
TX3B-	B08D (1×)
TX3B+	B07B (2×)
TX3B+	B08D (1×)
TX3C-	B07B (2×)
TX3C-	B08D (1×)
TX3C+	B07B (2×)
TX3C+	B08D (1×)
TX3CLK-	B07B (2×)
TX3CLK-	B08D (1×)
TX3CLK+	B07B (2×)
TX3CLK+	B08D (1×)
TX3D-	B07B (2×)
TX3D-	B08D (1×)
TX3D+	B07B (2×)
TX3D+	B08D (1×)
TX3E-	B07B (2×)
TX3E-	B08D (1×)
TX3E+	B07B (2×)
TX3E+	B08D (1×)
TX4A-	B07B (2×)
TX4A-	B08D (1×)
TX4A+	B07B (2×)
TX4A+	B08D (1×)
TX4B-	B07B (2×)
TX4B-	B08D (1×)
TX4B+	B07B (2×)
TX4B+	B08D (1×)
TX4C-	B07B (2×)
TX4C-	B08D (1×)
TX4C+	B07B (2×)
TX4C+	B08D (1×)
TX4CLK-	B07B (2×)
TX4CLK-	B08D (1×)
TX4CLK+	B07B (2×)
TX4CLK+	B08D (1×)
TX4D-	B07B (2×)
TX4D-	B08D (1×)
TX4D+	B07B (2×)
TX4D+	B08D (1×)
TX4E-	B07B (2×)
TX4E-	B08D (1×)
TX4E+	B07B (2×)
TX4E+	B08D (1×)
TXD	B03G (1×)
TXD	B04A (1×)
TXD-BOLT-ON	B04A (3×)
TXD-MIPS	B03G (2×)
TXD-MIPS	B04A (2×)
TXD-MIPS2	B03G (2×)
TXD-UP	B03G (1×)
TXD-UP	B03H (2×)
TXD-UP	B04A (2×)
UART-SWITCH	B03H (2×)
USB20-DM	B03G (2×)
USB20-DP	B03G (2×)
USB-OC	B03G (2×)
VDD_1V8	B05A (2×)
VDDA-ADC	B03A (1×)
VDDA-AUDIO	B03A (2×)
VDDA-AUDIO	B03D (4×)
VDDA-DAC	B03A (1×)
VDDA-DAC	B03D (1×)
VDDA-LVDS	B03A (1×)
VDDA-LVDS	B03B (1×)
VDDH_3V3	B05A (3×)
VDDO_3V3	B05A (2×)
VDDS_3V3	B05A (2×)
VSW	B01A (1×)
V-SYNC-VGA	B03E (1×)
V-SYNC-VGA	B04C (1×)
WC-EEPROM-PNX5100_SPI-DI	B03G (1×)
WC-EEPROM-PNX5100_SPI-DI	B04A (1×)
WC-EEPROM-PNX5100_SPI-DI	B04C (1×)
WC-EEPROM-PNX5100_SPI-DI	B08C (2×)
WP-NANDFLASH	B03G (2×)
WP-NANDFLASH	B03H (2×)
XIO-ACK	B03G (3×)
XIO-SEL-NAND	B03G (3×)
Y_CVBS-MON-OUT	B03E (1×)
Y_CVBS-MON-OUT	B04B (1×)
Y_CVBS-MON-OUT-SC	B04B (2×)

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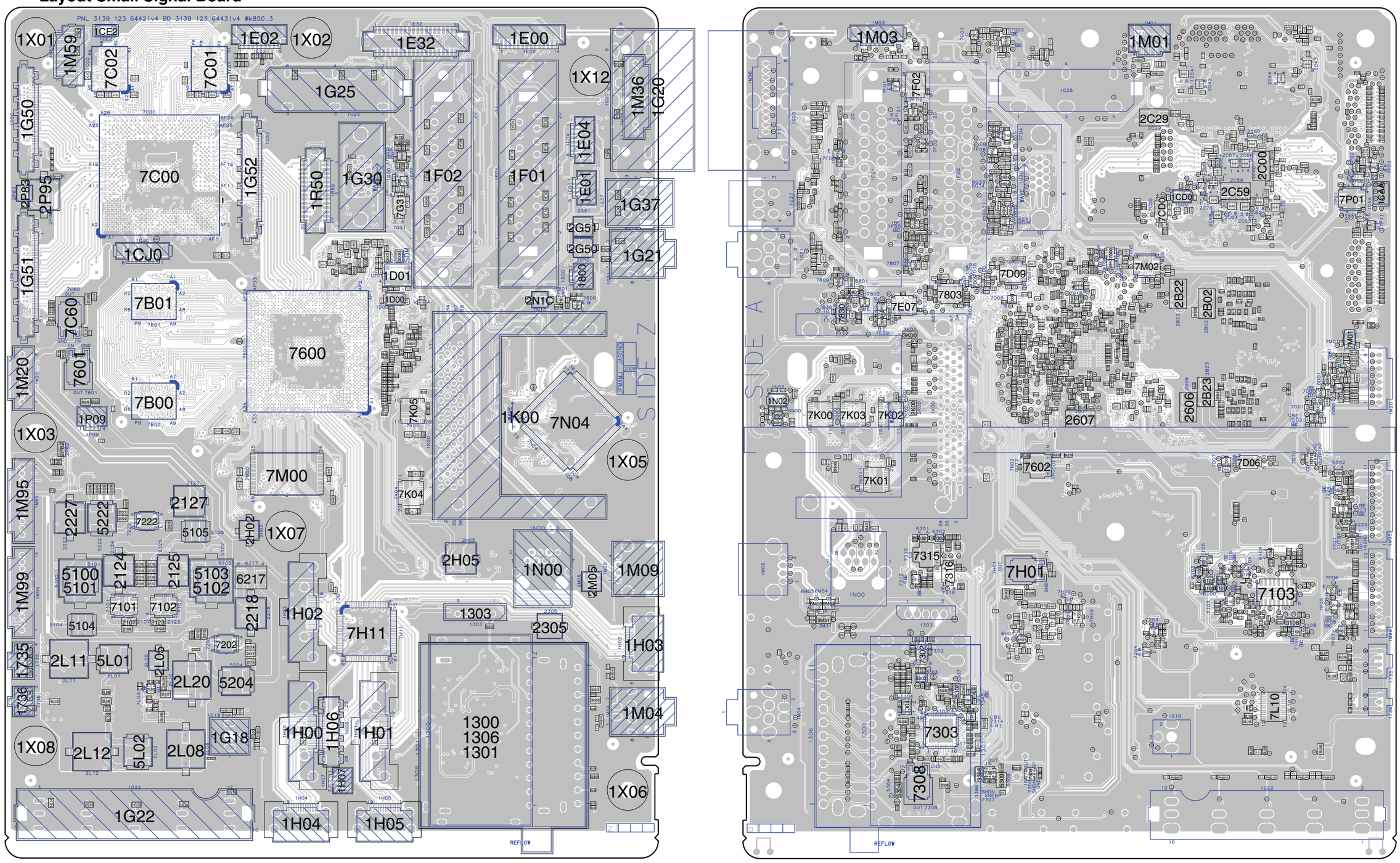
Layout Small Signal Board



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