

J1B

J1A

VSYS_IN

VDD_RTC

LCD CLK

GPIOC24 DC LED

CPIOC17_CHG_LED OUT-3V3-1A

VSYS_IN 3 GND 4

GND

R3 R4

R5

R6 R7

G0 G1

G2

G4 G5

G6 G7

BO

B1

B2

B3 B4 30

R5

B7

VSYNC

GPIOC8

PWM0

→ VBAT_SYS

DC_LED CHG_LED

VDD RTC

LCD_R0 LCD_R1

LCD_R2

LCD_R3 LCD_R4

LCD_R5 LCD_R6 LCD_R7 LCD_G0

LCD_G1 LCD_G2

LCD_G3 LCD_G4

LCD_G6 LCD_G7

LCD_B1

LCD_B4 LCD_B5

LCD_HSYNC LCD_VSYNC LCD_DE MCU_VG_EN

PWM0

VCC3P3_SYS

SDA1 39 MCU_SDA_1 MCU_SCL_1 MCU_TOUCH_INT TP_RST/GPIOC14 SCL1 GPIOB26 TP INT GPIOC14_TP_RST MCU_LVDS_CLKP LVDS CLKP MCU_LVDS_CLKM
MCU_LVDS_Y0P
MCU_LVDS_Y0M
MCU_LVDS_Y1P LVDS_CLKN LVDS Y0P LVDS_Y0P 46 LVDS_Y0N 47 LVDS_Y1P 48 LVDS_Y1N 49 MCU_LVDS_Y1M MCU_LVDS_Y2P MCU_LVDS_Y2M MCU_LVDS_Y3P LVDS_Y2P LVDS_Y2N LVDS_Y3P LVDS Y3N MCU_LVDS_Y3M XMIPI1MDPCLK LCD_MIPI-CLKP XMIPI1MDNCLK XMIPI1MDP0 LCD MIPI CLKN LCD_MIPI_DP0 XMIPI1MDP0 XMIPI1MDP1 LCD MIPL DNO XMIPI1MDN1 LCD_MIPI_DN1 LCD_MIPI_DP2 XMIPI1MDP2 LCD_MIPI_DN2 LCD_MIPI_DP3 XMIPI1MDP3 XMIPI1MDN3 LCD MIPI DN3 MCU_SD0_CD MCU_SD0_D1 MCU_SD0_D0 MCU_SD0_CLK SDO CD SD0_D1 SD0 D0 SD0_CLK MCU_SD0_CMD MCU_SD0_D3 SD0_CMD

SD0_D3 69

SD0_D2 70 SD1_D1 7

SD1_CLK 73 SD1_CMD

SD1_D3

SD1_D2

TXD1

RXD1

RTS1

SDA2

SCL2

GPIO3

ADC0

TXD2

RXD2 TXD3 RXD3

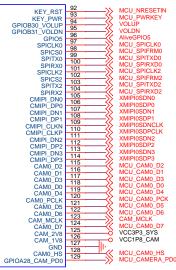
GPIOB25

VDD33 WIFI

USB_BOOT SD BOOT

SD1 D0

J1C



MCU_CAMERA_PD0

J1D

GPIOB24_CAM_PD1 CAM0_VS

GPIOB9_CAM0_RST

OTG_PWRON

OTG LISBN

OTG_USBP

HDMI_HPD

HDMI_CEC HDMI_TXCN

HDMI_TXCP

HDMI TX0N

HDMI_TX0P

HDMI TX1N HDMI_TX1N HDMI_TX2N 147 148

GND HOST_DP

SDAO

SCL0

I2S_IN

12S_OUT

12S LRCK

12S MCLK

GMAC MDIO

GMAC MDC

GMAC_TXEN GMAC_TXD3

GMAC_TXD2

GMAC TXD1

GMAC_TXD0 GMAC_TXCLK

PHY_INT GMAC_RXCLK

GMAC RXD3

GMAC RXD2

GMAC_RXD1

GMAC RXD0

GMAC_RXDV

GND TXD0

RXD0

TXD4 182

PHY_nRST

GND

HOST_DN GPIO8 HUB RST

GPIOC4 AMP EN

GPIOB27_HP_DET

138

149

160

MCU CAMERA PD1

MCU_CAM0_VS MCU_CAM_RST MCU_OTG_PWRON

MCU_USB-MCU_USB-MCU_USB_ID

MCU_HDMI_HPD

MCU HDMI CEC

MCU_HDMI_TXCN MCU_HDMI_TXCP

MCU_HDMI_TX0N

MCU_HDMI_TX0P

MCU_HDMI_TX1N

MCU HDMI TX1P

MCU_HDMI_TX2P

MCU_USB_HOST_D+
MCU_USB_HOST_DHUB_RST

MCU_SDA_0

MCU_SDA_0
MCU_SCL_0
MCU_I2S_SDIN
MCU_AMP_EN
MCU_I2S_SDOUT
MCU_I2S_LRCK
MCU_I2S_BCK
MCU_I2S_MCLK
MCU_I2S_MCLK
MCU_HP_DET

GMAC_MDIO GMAC_MDC

GMAC_TXD3 GMAC_TXD2

GMAC_TXD1 GMAC_TXD0

GMAC_TXCLK PHY_INTn

GMAC_RXD3 GMAC_RXD2 GMAC_RXD1 GMAC_RXD0

GMAC_RXDV

TXD0 RXD0

TXD4 RXD4

PHY nRST

DC5V OTG

J2 CON8

MCU_SDU_D3 MCU_SD0_D2 MCU_SD1_D1 MCU_SD1_D0 MCU_SD1_CLK MCU_SD1_CMD

MCU_SD1_D3 MCU_SD1_D2

MCU_SDA_2

VCC3P3_WIFI

MCU_SEN0_INT MCU_LOWBAT_DET

TXD1 RXD1

CTS1

ADC0 TXD2

RXD2 TXD3

RXD3 USB BOOT

Shen Zhen RP ELECTRONICS CO.,LTD RP4418/6818CV03 Board Schematics (TEL +86 755 23036780) A3 1.0 CON Tuesday, October 13, 2015 Sheet 12 of