WORKING DRAFT

LCD backlight DC-DC step-up converter

VLED+
D1
L1
DLG-0403-4R7
+3V3
ZD1
BZX384-B30.115
C1
1u
PGND
R1
10R
C2
4u7
PGND
IC1
SW — VIN
VLED-
Vfb = 0.204 V
FB — CTRL
X0D11/LCD_BR
R3
10R
GND
PGND
PWM dimming signal frequency: 5 - 100 kHz
PGND
TPS61169DCKR

Estimated power consumption

Part function / name	+1V	+3.3V	+32V
LCD display	-	33 mA	20 mA
Touch controller AR1021-I/SS	-	17 mA	-
Hi-speed SR SN74VHC595 x 3	-	12 mA	-
SDRAM IS42S16400J	-	100 mA	-
I/O expander MCP23S17-E/SS	-	35 mA	-
MCU XE216-512-TQ128	700 mA	27 mA	-
Mux/Demux SN74CBTLV3257 x 2	-	4 mA	-
Audio amplifier TPA6205A1DGN	-	2 mA	-
Micro SD Card	-	30 mA	-
W5500 Ethernet module (optional)	-	150 mA	-
Riverdi 3.5" LCD (optional)	-	257 mA	-
Total	**700 mA**	**667 mA**	**20 mA**

DC power input

X1
FC68149
F1
SM050-16 (500mA)
Q1
IRLML2246TRPBF
VIN
ZD3
P4SMAJ16A-DIO
ZD2
PGND
R2
0R
PGND

4.3" LCD 40-pin socket and resistive touchscreen controller

LCD1
R0 R1 R2 R3 R4 R5 R6 R7
VLED-
VLED+
VDD
NC1
GND-3
GND-29
+3V3
PGND
R7
10K
+3V3
RESET — RESET
LCD_CLK — CLK
DISP
LCD_HSYNC — HSYNC
LCD_VSYNC — VSYNC
LCD_DE — DE/NC2
G0 G1 G2 G3 G4 G5 G6 G7
B0 B1 B2 B3 B4 B5 B6 B7
XR
YD
XL
YU
PCA-6-LA-40-HL-3
Consumption: +3.3 V, max. 33 mA; 32V, 20 mA

LCD_0 LCD_1 LCD_2 LCD_3 LCD_4 LCD_5 LCD_6 LCD_7 LCD_8 LCD_9 LCD_10 LCD_11 LCD_12 LCD_13 LCD_14 LCD_15
LCD_[0..15]

IC3
Q0/A Q1/B Q2/C Q3/D Q4/E Q5/F Q6/G Q7/H
SER — SPI0_MOSI
SRCLK — SPI0_CLK
RCLK
SRCLR
OE
+3V3
Q7/H
VCC — GND
C6
100n
PGND
74VHC595MTC

IC5
Q0/A Q1/B Q2/C Q3/D Q4/E Q5/F Q6/G Q7/H
SER
SRCLK
RCLK
SRCLR
OE — SPI0_STROBE
+3V3
Q7/H
+3V3
VCC — GND
C10
100n
PGND
74VHC595MTC

IC7
WAKE
R11
20K
VDD
C12 C13
100n 1u
PGND
X+ Y- X- Y+
M1
M2
SX+ SY- 5WSX- SY+ VSS
SCK/SCL/TX — SPI1_CLK
SDI/SDA/RX — SPI1_MOSI
SDO — SPI1_MISO
SS — SPI0_TOUCH
SIQ
AR1021-I/SS
Consumption: +3.3 V, Typ. 17 mA
C15 C16
10n 10n
PGND PGND

+3.3V DC-DC step-down converter

+3V3
L2
DLG-0403-2R2
C3
100n
IC2
VBST — VIN
SW — EN
Vfb = 0.768 V
VFB — GND
C4
EEEFK1V220R
PGND PGND
PWR_3V3
HSMY-C170
C5
EEEFK1C470UR
R4
34K
R5
180R
R6
10K
PGND
TPS561208DDCR

+1V DC-DC step-down converter with sequencer

+1V0
L3
DLG-0403-2R2
C7
100n
IC4
VBST — VIN
SW — EN
Vfb = 0.768 V
VFB — GND
VIN
1V0_EN
C8
EEEFK1V220R
C9
EEEFK1C470UR
R8
5K1
R9
16K
PGND
TPS561208DDCR
R10
47K
+3V3
IC6
MR — VDD
SENSE — RESET
GND — CT
PGND
TPS3808G33DBVR
R11
C11
100n
PGND
t(delay) = 1.2 ms
C14
120p
PGND

WLED boost, TFT display with touchscreen
Sequenced power supplies +3.3V and +1V

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SDRAM

SD_ADQ[0..15]

IC10

Pin	left	Pin	right
23	A0	DQ0	2 SD_ADQ0
24	A1	DQ1	4 SD_ADQ1
25	A2	DQ2	5 SD_ADQ2
26	A3	DQ3	7 SD_ADQ3
29	A4	DQ4	8 SD_ADQ4
30	A5	DQ5	10 SD_ADQ5
31	A6	DQ6	11 SD_ADQ6
32	A7	DQ7	13 SD_ADQ7
33	A8	DQ8	42 SD_ADQ8
34	A9	DQ9	44 SD_ADQ9
22	A10/AP	DQ10	45 SD_ADQ10
35	A11	DQ11	47 SD_ADQ11
36	A12/NC-36	DQ12	48 SD_ADQ12
		DQ13	50 SD_ADQ13
20	BA0	DQ14	51 SD_ADQ14
21	BA1	DQ15	53 SD_ADQ15
40	NC-40		

SD_ADQ0 23
SD_ADQ1 24
SD_ADQ2 25
SD_ADQ3 26
SD_ADQ4 29
SD_ADQ5 30
SD_ADQ6 31
SD_ADQ7 32
SD_ADQ8 33
SD_ADQ9 34
SD_ADQ10 22
SD_ADQ11 35
SD_ADQ12 36
SD_ADQ13 20
SD_ADQ14 21

IC12A
SN74LVC1G02DBVR

VDDQ-3 3
VDDQ-9 9
VDDQ-43 43
VDDQ-49 49 +3V3

VDD-1 1
VDD-14 14
VDD-27 27

UDQM 39
LDQM 15

SD_RAS 18 RAS
SD_CAS 17 CAS
SD_WE 16 WE
19 CS

GND 41
GND-28 28
GND-54 54

R15
10K
PGND

GNDQ-6 6
GNDQ-12 12
GNDQ-46 46
GNDQ-52 52

SD_CLK 38 CLK
37 CKE
+3V3 R16
10K

PGND

IS42S16400J
Consumption: +3.3 V, up tp 110 mA

+3V3   +3V3

IC12B
5 VDD
C23 100n   C24 100n   C25 100n   C26 100n   C27 100n   C28 100n   C29 100n
3 VSS

PGND   PGND

QSPI Flash memory

+3V3
8 VDD
IC9B   C19 100n
4 VSS
PGND

SSW-105-02-S-D
X2-2 X2-1
X2-4 X2-3
PGND

+3V3
IC9A
5 Q   PRE 7
      D
      CLK 1 LATCH_OUT
3 Q   CLR 6
74AUP1G74DC.125

R13
10K

IC11
X0D01/QS_CS 4 1A   1B1 2
              1B2 3
X0D10/QS_CLK 7 2A 2B1 5
              2B2 6
LATCH_IN 9 3A   3B1 11
              3B2 10
              4B1 14
12 4A   4B2 13

+3V3
R14
10K +3V3

SD_CAS
SD_WE
SD_RAS

QSPI_SEL 1 S   VCC 16
15 OE   GND 8
C21 100n
SN74CBTLV3257
Consumption: +3.3 V, max. 2 mA
PGND   PGND

IC14
X0D04/QS_D0 4 1A   1B1 2
              1B2 3
X0D05/QS_D1 7 2A 2B1 5
              2B2 6
X0D06/QS_D2 9 3A 3B1 11
              3B2 10
              4B1 14
X0D07/QS_D3 12 4A 4B2 13

SD_ADQ2
SD_ADQ3
SD_ADQ4
SD_ADQ5

QSPI_SEL 1 S   VCC 16
15 OE   GND 8
C30 100n
SN74CBTLV3257
PGND   PGND

SD_ADQ[0..15]

Reset

+3V3   +3V3
R12   C17 100n   C18 10n
47K   PGND   PGND

Manual reset
SW1
3 1
4 2
5
1301.9316   PGND

RESET

IC8
6 VDD   MR 3
1 RESET SENSE 5 +1V0
4 CT   GND 2
TPS3808G09DBVR

C20 120p
t(delay) = 1.2 ms
PGND

X2-5
X2-6
X2-7
X2-8
X2-9
X2-10

IC13
QSPI_CS 1 CS   VCC 8 +3V3
QSPI_CLK 6 SCK
QSPI_D0 5 SI/IO0
QSPI_D1 2 SO/IO1
QSPI_D2 3 WP/IO2
QSPI_D3 7 HOLD/IO3 GND 4
AT25SF041-SSHDT
SPI speed: up to 104 MHz
C22 100n
PGND

SPI boot select / slave connector

+3V3 R17 3K3
X0D00/LATCH   X3-1
X0D05/QS_D1   X3-2
X0D11/LCD_BR   X3-3
               X3-4
LATCH_IN   X3-5
X0D10/QS_CLK   X3-6
               X3-7
               X3-8
PGND   TSW-104-02-S-D_NN

Pin	S=0 A -> B1	S=1 A -> B2
X0D00	SD_RAS	LATCH
X0D01	SD_CAS	QSPI_CS
X0D04	SD_ADQ2	QSPI_D0
X0D05	SD_ADQ3	QSPI_D1
X0D06	SD_ADQ4	QSPI_D2
X0D07	SD_ADQ5	QSPI_D3
X0D10	SD_WE	QSPI_CLK

	X2
Int.	1 - 2
Ext.	3 - 4

Boot mode	X3
QSPI	1 - 2
Slave SPI	3 - 4

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SDRAM, QSPI lines muxing and flash, Reset

+5V
IC15
5 IN OUT 1 USB_VBUS
VBUS_EN 4 EN
USB_OC 3 OC GND 2
TPS2051BDBVR
PGND
R19 47K +3V3

What is a function of USB_ID pin? Does it set e.g. internally bus resistors?

IC18USB
USB
USB_DM 47 USB_D_N
USB_DP 46 USB_D_P
USB_VBUS 45 USB_VBUS
USB_ID 43 ???
USB_RTUNE 48
XE216-512-TQ128-C20

R18 4K7
C31 100n
R21 47K
C32 2u2
C33 100n
R22 43R2
43R2 should be connected as close as possible to the device
PGND

IC16
4 VCC IO1 2
1 GND IO2 3
TPD2E001DZDR
PGND

R20 47K
+3V3

FB1 60R@100MHz
J1
1 VCC
2 D-
3 D+
4 ID
5 GND
FB2 60R@100MHz
SH1*2 SH1
SH2*2 SH2
678038020
Mini USB 2.0 Type AB
PGND

USB_ID

IC18-TILE0
X0D00 30 X0D00/LATCH
X0D01 27 X0D01/QS_CS
X0D02 37 SD_ADQ0
X0D03 38 SD_ADQ1
X0D04 31 X0D04/QS_D0
X0D05 33 X0D05/QS_D1
X0D06 34 X0D06/QS_D2
X0D07 35 X0D07/QS_D3
X0D08 39 SD_ADQ6
X0D09 40 SD_ADQ7
X0D10 28 X0D10/QS_CLK
X0D11 32 X0D11/LCD_BR
X0D12 62 AUDIO_OUT
X0D13 63 SD_CLK
X0D14 57 SD_ADQ8
X0D15 58 SD_ADQ9
X0D16 68 SD_ADQ10
X0D17 69 SD_ADQ11
X0D18 70 SD_ADQ12
X0D19 71 SD_ADQ13
X0D20 59 SD_ADQ14
X0D21 61 SD_ADQ15
X0D22 64 LCD_VSYNC
X0D23 66 LCD_DE
X0D24 88 LCD_CLK
X0D25 89 LCD_HSYNC
X0D26 93 SPI0_MOSI
X0D27 94 SPI1_CLK
X0D28 96 SPI2_CLK
X0D29 98 SPI2_MOSI
X0D30 99 SPI1_MOSI
X0D31 100 SPI0_CLK
X0D32 95 SPI0_STROBE
X0D33 97 SPI1_SELECT
X0D34 90 SPI2_SELECT
X0D35 91 SPI1_MISO
X0D36 92 SPI2_MISO
X0D37 4 SPI0_TOUCH
X0D38 5 GPIO38
X0D39 7 GPIO39
X0D40 8 XL_DN1
X0D41 9 XL_DN0
X0D42 10 R27 33R XL_UP0
X0D43 12 R28 33R XL_UP1
TILE 0
XE216-512-TQ128-C20

SD_ADQ[0..15]

TSW-103-07-F-D
X4-1
X4-2
X4-3
X4-4
X4-5 +3V3
X4-6 +5V
PGND

+5V for USB hosting
IC17
3 VIN VBST 6 C34 100n L4 DLG-0403-2R2 +5V
VIN
VBUS_EN 5 EN SW 2
1 GND VFB 4 Vfb = 0.768 V
TPS561208DDCR
C40 EEEFK1V220R
PGND
R23 56K
C41 EEEFK1C470UR
R24 10K
PGND

+3V3
C35 100n C36 100n C37 100n C38 100n C39 100n
PGND
+3V3
C42 100n C43 100n C44 100n C45 100n
PGND
+1V0
C46 100n C47 100n C48 100n C49 100n C50 100n
PGND
+1V0
C52 100n C53 100n C54 100n C55 100n
PGND

IC18-POWER
OTP_VCC 105
USB_VDD33 44 +3V3
VDDIOL-6 6
VDDIOL-14 14
VDDIOL-19 19
VDDIOL-29 29
VDDIOL-42 42
VDDIOR-52 52
VDDIOR-67 67
VDDIOR-78 78
VDDIOR-83 83
VDDIOR-92 92
VDDIOT-110 110
VDDIOT-111 111
USB_VDD 49
VDD-11 11
VDD-16 16
VDD-17 17
VDD-24 24
VDD-36 36
VDD-41 41
VDD-56 56
VDD-60 60
VDD-73 73
VDD-80 80
VDD-81 81
VDD-87 87
VDD-101 101
VDD-102 102
VDD-120 120
VDD-126 126
PLL_AVDD 103
PLL_AGND 104
NC-50 50
NC-65 65
VSS PAD
POWER
XE216-512-TQ128-C20

+1V0
C56 10u
PGND
+1V0
R31 4R7
C57 100n
PGND
RC filter (especially the capacitor) is placed close to the PLL_AVDD pin

IC19
1 IO1 VCC 6
2 IO2
4 IO3
5 IO4 GND 3
TPD4E001DRLR
+3V3
PGND

XO1
3 OUT VDD 4
2 GND EN
CFPS-73-24M
PGND
+3V3
IC21B
5 VDD
C51 100n
3 VSS +3V3
PGND

IC20
6 VCC IO1 1
IO2 3
IO3 2
GND IO4 4
TPD4E001DRLR
+3V3
PGND

R25 33R
IC21A
4 1
2
74LVC1G07SE-7
R26 47K

IC18-SYSTEM
CLK 125
RST_N 124
TCK 128
TMS 127
TDI 1
TDO
TRST_N 123
SYSTEM
XE216-512-TQ128-C20

R29 33R TMS
R30 33R TCK
TDI
TDO
TRST_N

X5
1 2
3 4
5 6 XL_UP1
7 8
9 10 XL_UP0
11 12
13 14 XL_DN0
15 16
17 18 XL_DN1
19 20
ZL231-20KG
XSYS connector
PGND

RESET

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MCU Power, USB, Tile 0 and System section
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MCU Tile1 & Ethernet PHY

Audio amplifier

IC18-TILE1

X1D00	85
X1D01	86
X1D02	72
X1D03	74
X1D04	75
X1D05	76
X1D06	77
X1D07	79
X1D08	82
X1D09	84
X1D10	121
X1D11	122
X1D14	51
X1D15	53
X1D16	22
X1D17	23
X1D18	25
X1D19	26
X1D20	54
X1D21	55
X1D26	112
X1D27	113
X1D28	114
X1D29	115
X1D30	116
X1D31	117
X1D32	118
X1D33	119
X1D35	13
X1D36	15
X1D37	18
X1D38	20
X1D39	21
X1D40	106
X1D41	107
X1D42	108
X1D43	109

TILE 1

XE216-512-TQ128-C20

ETH_MDIO
ETH_MDC

ETH_TX_CLK
ETH_TX_CTL
ETH_RX_CLK
ETH_RX_CTL
ETH_RX0
ETH_RX1
ETH_RX2
ETH_RX3
SPI_INT
ETH_RX_ER
ETH_RST
ETH_TX3
ETH_TX2
ETH_TX1
ETH_TX0

IC22A
74LVC1G07SE-7
AUDIO_OUT 2 4

R33 1K
R34 1K

C60 4n7
C61 4n7

+3V3
IC22B
5 VDD
3 VSS
C63 100n
PGND

PGND

C58 1u
PGND
C59 470n R35 10K
C62 470n R36 10K
AUDIO_SHDN
R37 47K
C64 220n
PGND

+3V3
R32 20K
IC23
6 VDD
3 IN+
4 IN-
1 SHDN
2 BYPASS
7 GND
TP TP
GND
TPA6205A1DGN
R38 20K
Consumption: +3.3 V, max. 2 mA

22-23-2021
X6-1
X6-2
SP1
VO- 8
VO+ 5
LD-BZEN-0803

XO2
3 OUT   VDD 4 +3V3
2 GND   EN 1
CFPS-73-25M

R39 33R
PGND

R42 22R ETH_TX_CLK

IC24
30 MDIO   TD+ 17
31 MDC   TD- 16
34 X1   RD+ 14
33 X2   RD- 13
1 TX_CLK   CLK_OUT 25
2 TX_EN
38 RX_CLK
39 MII_MODE(RX_DV)
   AN_EN(LED_ACT/COL) 26
   AN_1(LED_SPEED) 27
   AN_0(LED_LINK) 28
42 PHYAD0(COL)
41 MDIX_EN(RX_ER)   RBIAS 29
29 RESET_N   PFBOUT 40
40 CRS/CRS_DV/LED_CFG PFBIN1 19
                    PFBIN2 18
43 PHYAD1(RXD1_0)
44 PHYAD2(RXD1_1) RESERVED-20 37
45 PHYAD3(RXD1_2) RESERVED-21 20
46 PHYAD4(RXD1_3)   21
3 TXD_0   TRST 11
4 TXD_1   TMS 10
5 TXD_2   TDO 9
6 TXD_3/SNI_MODE   TDI 12
                    TCK 8
                IOGND-35 35
                IOGND-47 47
7 PWR_DOWN/INT   AGND-15 15
22 AVDD33   AGND-19 19
32 IOVDD33-32   DGND 36
48 IOVDD33-48   GND
                    PAD
DP83848CVV/NOPB
Consumption: +3.3 V, typ. 92 mA

SPEED
HSMY-C170
LED_ACT
LED_SPEED
LED_LINK

R43 2K2
R45 180R
R46 2K2
R48 2K2
R49 180R
R50 180R

+3V3
R44 49R9
R47 49R9

+3V3(A)
R40 49R9
R41 49R9
C65 100n
PGND

+3V3(A)
C67 100n
PGND

+3V3
PGND

C66 100n
C68 100n
PGND

X7
1 TX+
2 TX-
3 RX+
6 RX-
75R 75R 75R
4
5
7
8
1 nF
12
11
9
10
Right LED (Yellow)
Left LED (Green)
LMJTAB881243M-L

R51 2K2
R52 2K2
C69 100n
C70 100n
C71 10u Tant.
C72 100n
R53 4K87
PGND

+3V3 +3V3(A) +3V3 +3V3
FB3
60R@100MHz
C73 100n
C74 100n
C75 100n
PGND

PGND

MCU Tile 1, Ethernet PHY, Audio amplifier

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SPI#1 Chip select demultiplexer

IC26

74VHC595MTC

Pin	Signal		Pin	Signal
14	SER	Q0/A	15	SPI1_RTC
11	SRCLK	Q1/B	1	SPI1_IOEXP
12	RCLK	Q2/C	2	SPI1_W5500
10	SRCLR	Q3/D	3	SPI1_SDCARD
		Q4/E	4	SPI1_EEPROM
		Q5/F	5	RIVERDI_PD
13	OE	Q6/G	6	AUDIO_SHDN
		Q7/H	7	VBUS_EN
9	Q7/H			
8	GND	VCC	16	+3V3

SPI1_MOSI, SPI1_CLK, SPI1_SELECT, +3V3

PGND

C80 100n PGND

EEPROM

IC25

M95256-WMN6P

SPI1_EEPROM	1	CS	VCC	8	+3V3
SPI1_CLK	6	SCK	WP	3	
SPI1_MOSI	5	SI	HOLD	7	
SPI1_MISO	2	SO	GND		

C76 100n PGND

SPI_MODE0   SPI speed: 5 MHz

Micro SD card socket

+3V3

C77 10u   GND

J2

5033981892

SPI1_SDCARD	1	DAT2	SH	
SPI1_MOSI	2	CD/DAT3		GND
	3	CMD		
SPI1_CLK	4	VDD		
	5	CLK		
SPI1_MISO	6	VSS		
	7	DAT0		
	8	DAT1		

SD_DETECT

GND

Consumption: +3.3 V, up tp 30 mA

Real time clock with supercapacitor backup

+3V3

D2 BAS316   C78 100n   GND

R54 180R

IC27

PCA21125T/Q900/1,1

SPI1_RTC	6	CE	VDD	14
SPI1_CLK	7	SCL		
SPI1_MOSI	9	SDI	OSCI	1
SPI1_MISO	8	SDO		
RTC_INT	5	INT	OSCO	2
			CLKOUT	13
			VSS	7

Y1   XTAL016178-85SMX

C79   EECS0HD334H

PGND

SPI_MODE0
SPI speed: 4 MHz @ 2.7 V
Consumption: +3.3 V, 0.5 mA; backup current: typ. 0.55 µA

LED1 HSMY-C170   R55 470R
LED2 HSMY-C170   R56 470R
LED3 HSMY-C170   R57 470R   PGND

R58 470R   SSW-107-02-S-D   X8-1
R59 470R   X8-2 X8-3
R60 470R   X8-4 X8-5 X8-6

ZD4 ZD5 ZD6   P4SMAJ5.0A-DIO   PGND   PGND

I/O expander and interrupts collector

IC28

MCP23S17-E/SS

RESET	18	RESET	GPA0	21	IOEXP_LED1
SPI1_MOSI	13	SI	GPA1	22	IOEXP_LED2
SPI1_MISO	14	SO	GPA2	23	IPEXP_LED3
SPI1_CLK	12	SCK	GPA3	24	IOEXP_DINP1
SPI1_IOEXP	11	CS	GPA4	25	IOEXP_DINP2
			GPA5	26	IOEXP_DINP3
	15	A0	GPA6	27	IOEXP_OCO1
	16	A1	GPA7	28	IOEXP_OCO2
	17	A2			
			GPB0	1	IOEXP_OCI1
SPI_INT	20	INTA	GPB1	2	IOEXP_OCI2
	19	INTB	GPB2	3	RTC_INT
			GPB3	4	W5500_INT
+3V3	9	VDD	GPB4	5	RIVERDI_INT
			GPB5	6	SD_DETECT
	10	VSS	GPB6	7	USB_OC
			GPB7	8	USB_ID

C81 100n   PGND

SPI_MODE0
SPI speed: max. 10 MHz
Consumption: +3.3 V, up to 35 mA

R61 220R   OK1A   ZD7 P4SMAJ16A-DIO   X8-10   Vce(max) = 16 V
MOCD217M   X8-9
R62 220R   OK1B   ZD8 P4SMAJ16A-DIO   X8-8
MOCD217M   X8-7
OK2A   D3 BAS316   R63 470R   X8-12
MOCD217M   X8-11   5 V logic level
OK2B   D4 BAS316   R64 470R   X8-14
MOCD217M   X8-13

R65 1K   R66 1K   +3V3   PGND

W5500 Ethernet module (optional)

MOD1   ZL262-10DG

SPI1_MISO	2	MISO
SPI1_MOSI	3	MOSI
SPI1_W5500	4	SCS
SPI1_CLK	5	SCLK
W5500_INT	6	INT
ETH_RST	8	RST
	6	5V0
+3V3	1	3V3
	7	GND

W5500 Ethernet module

PGND

SPI_MODE0
Consumption: +3.3 V, 150 mA

Riverdi LCD 20-pin connector (optional)

PCA-6G-20-HL-3 or 52746-2071

+3V3   X9-1 X9-17 X9-18

PGND   X9-2 X9-19 X9-20 X9-9

SPI2_CLK	X9-8
SPI2_MISO	X9-3
SPI2_MOSI	X9-4
SPI2_SELECT	X9-5
RIVERDI_INT	X9-6
RIVERDI_PD	X9-7
AUDIO_OUT	X9-10

SPI_MODE0
SPI speed: up to 30 MHz
Consumption: +3.3 V, max. 257 mA

SPI0 CS demux, EEPROM, Micro SD card, RTC
I/O Expander, W5500 Ethernet, Riverdi LCD

TITLE: EEZ XMOS eval r1B4

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