

## Connector J1 pinout

PIN	NAME	DIR	DESCRIPTION	LOGIC LEVEL
D1	ETH_TX+	OUT	ETHERNET TRASMIT POS SIGNAL	ECL
B1	ETH_RX+	IN	ETHERNET RECEIVE POS SIGNAL	ECL
C1	ETH_TX-	OUT	ETHERNET TRASMIT NEG SIGNAL	ECL
A1	ETH_RX-	IN	ETHERNET RECEIVE NEG SIGNAL	ECL
D2	GND	PWR	GND POWER	
B2	GND	PWR	GND POWER	
C2	FULL_DUPLEX	OUT	FULL DUPLEX LED SIGNAL	TTL 3,3V
A2	SPI4_MISO	IN	SPI4 MASTER IN SLAVE OUT	TTL 1,8V
D3	SPEED_100	OUT	10/100 SPEED LED SIGNAL	TTL 3,3V
B3	SPI4_SPCK	OUT	SPI4 CLOCK	TTL 1,8V
C3	LINK_ACT	OUT	LINK AND ACTIVITY LED SIGNAL	TTL 3,3V
A3	SPI4_MOSI	OUT	SPI4 MASTER OUT SLAVE IN	TTL 1,8V
D4	I2C2_SCL	OUT	I2C CHANNEL2 CLOCK	TTL 1,8V
B4	SPI4_NPCS0	OUT	SPI1 CHIP SELECT 0	TTL 1,8V
C4	VIN_USB	IN	5V TO/FROM USB OTG CONNECTOR	TTL 3,3V
A4	RXD3_232	IN	SERIAL 3 RX 232 SIGNAL USED FOR CONSOLE	TTL 3,3V
D5	MMC1_D4	BI	MMC1 DATA 4	TTL 3,3V
B5	TXD3_232	OUT	SERIAL 3 TX 232 SIGNAL USED FOR CONSOLE	TTL 3,3V
C5	MMC1_D5	BI	MMC1 DATA 5	TTL 3,3V
A5	PWM0	OUT	PWM0 SIGNAL OUTPUT	TTL 1,8V
D6	RXD1	IN	SERIAL RXD1 SIGNAL	TTL 1,8V
B6	PWM1	OUT	PWM1 SIGNAL OUTPUT	TTL 1,8V
C6	CTS1	IN	SERIAL CTS1 SIGNAL	TTL 1,8V

PIN	NAME	DIR	DESCRIPTION	LOGIC LEVEL
A6	GPIO10	BI	GPIO10	TTL 1,8V
D7	RTS1	OUT	SERIAL RTS0 SIGNAL	TTL 1,8V
B7	GPIO186	BI	GPIO186	TTL 1,8V
C7	TXD1	OUT	SERIAL TXD1 SIGNAL	TTL 1,8V
A7	I2C3_SDA	BI	I2C CHANNEL 3 DATA SIGNAL	TTL 1,8V
D8	GND	PWR	GND POWER	
B8	UART2_RXD	IN	SERIAL 2 RXD SIGNAL	TTL 1,8V
C8	SPI1_MISO	IN	SPI0 MASTER IN SLAVE OUT	TTL 1,8V
A8	UART2_CTS	IN	SERIAL 2 CTS SIGNAL	TTL 1,8V
D9	SPI1_MOSI	OUT	SPI1 MASTER OUT SLAVE IN	TTL 1,8V
B9	UART2_TXD	OUT	SERIAL 2 TXD SIGNAL	TTL 1,8V
C9	SPI1_CLK	OUT	SPI1 CLOCK	TTL 1,8V
A9	UART2_RTS	OUT	SERIAL 2 RTS SIGNAL	TTL 1,8V
D10	SPI1_CS0	OUT	SPI1 CHIP SELECT 0	TTL 1,8V
B10	GND	PWR	GND POWER	
C10	GND	PWR	GND POWER	
A10	LCDDCC	OUT	LCD CONTRAST CONTROL	TTL 3,3V
D11	MMC1_D6	BI	MMC1 DATA 6	TTL 3,3V
C11	I2C2_SDA	BI	I2C CHANNEL 2 DATA SIGNAL	TTL 1,8V
B11	LCDVSYNC	OUT	LCD VERTICAL SYNC	TTL 3,3V
A11	LCDHSYNC	OUT	LCD HORIZONTAL SYNC	TTL 3,3V
D12	TVOUT1	OUT	TVOUT SIGNAL TO VIDEO AMPLIFIER	VIDEO
B12	GND	PWR	GND POWER	
C12	TVOUT1	OUT	TVOUT SIGNAL TO VIDEO AMPLIFIER	VIDEO
A12	LCDDOTCK	OUT	LCD DOT CLOCK	TTL 3,3V
D13	GND	PWR	GND POWER	
B13	GND	PWR	GND POWER	

PIN	NAME	DIR	DESCRIPTION	LOGIC LEVEL
C13	MMC1_CLK	OUT	MMC1 CLOCK SIGNAL	TTL 3,3V
A13	LCDD1	OUT	LCD CONTROLLER DATA 1	TTL 3,3V
D14	MMC1_CMD	IN	MMC1 COMMAND SIGNAL	TTL 3,3V
C14	MMC1_CD	IN	MMC1 CARD DETECT	TTL 3,3V
B14	LCDD13	OUT	LCD CONTROLLER DAT1 13	TTL 3,3V
A14	LCDD15	OUT	LCD CONTROLLER DATA 15	TTL 3,3V
D15	MMC1_DATA1	BI	MMC1 DATA 1	TTL 3,3V
B15	LCDD14	OUT	LCD CONTROLLER DATA 14	TTL 3,3V
C15	MMC1_DATA0	BI	MMC1 DATA 0	TTL 3,3V
A15	LCDD9	OUT	LCD CONTROLLER DATA 9	TTL 3,3V
D16	MMC1_DATA2	BI	MMC1 DATO 2	TTL 3,3V
B16	LCDD0	OUT	LCD CONTROLLER DATA 0	TTL 3,3V
C16	MMC1_DATA3	BI	MMC1 DATA 3	TTL 3,3V
A16	LCDD6	OUT	LCD CONTROLLER DATA 6	TTL 3,3V
D17	GND	PWR	GND POWER	
B17	LCD_DEN	OUT	LCD DATA ENABLE	TTL 3,3V
C17	MMC1_DATA4	BI	MMC1 DATA 4	TTL 3,3V
A17	LCDD4	OUT	LCD CONTROLLER DATA 4	TTL 3,3V
D18	MMC1_DATA5	BI	MMC1 DATA 5	TTL 3,3V
B18	LCDD3	OUT	LCD CONTROLLER DATA 3	TTL 3,3V
C18	CANTX	OUT	CAN BUS TX SIGNAL	TTL 3,3V
A18	LCDD12	OUT	LCD CONTROLLER DATA 12	TTL 3,3V
D19	CANRX	IN	CAN BUS RX SIGNAL	TTL 3,3V
B19	LCDD10	OUT	LCD CONTROLLER DATA 10	TTL 3,3V
C19	GND	PWR	GND POWER	
A19	LCDD2	OUT	LCD CONTROLLER DATA 2	TTL 3,3V
D20	HSUSB_ID	IN	OTG USB_ID SIGNAL	TTL 3,3V