

Computer On Module

- Processor ARM® Cortex®-A7 based
NXP i.MX6 UltraLite
MCIMX6G2, 528 MHz
- RAM 256MB 16-bit DDR3 SDRAM
- ROM 128MB NAND Flash / 4GB eMMC
- Power supply Single 3.1V to 5.5V
- Size 26mm SO-DIMM
- Temperature -40°C to 85°C

Key Features

- ARM® Cortex®-A7 Core
 - ARM TrustZone
 - NEON Multimedia Architecture
 - VFP
 - 128 Kbyte L2 Cache
- Peripherals
 - Two 10/100Mbps Ethernet ports
 - Two High Speed USB 2.0 ports
 - LCD TFT controller, 24bpp
 - Pixel-processing pipeline (PXP) to support 2D image processing, including color-space conversion, scaling, alpha-blending, and rotation
 - 8-bit Parallel CSI Camera Interface
 - Up to 8x UART, 3x on standard TXCoM pinout
 - SDIO interface
 - Synchronous Serial Audio Interface (I2S/SAI)
 - Two-wire Interface up to 400 Kbits/s (I2C)
 - Master/Slave Serial Peripheral Interface (SPI)
 - 2x Controller Area Network (FlexCAN)
 - 12-bit ADC
- Advanced security
 - Crypto Engine (AES/TDES/SHA), Secure Boot
- 3.3V I/O



OS Support

- Linux



Processor

Expanding the i.MX 6 series, the i.MX 6UltraLite is a high performance, ultra-efficient processor family featuring an advanced implementation of a single ARM® Cortex®-A7 core, which operates at speeds up to 528 MHz.

- The single ARM® Cortex®-A7 core can provide a more cost-effective and more power efficient solution
- Processor delivers hardware-enabled security features that enable secure e-commerce, digital rights management (DRM), information encryption, On-The-Fly DRAM encryption, secure boot and secure software downloads
- Processor supports connections to a variety of interfaces: two high-speed USB on-the-go with PHY, multiple expansion card ports (high-speed MMC/SDIO host and other), two 12-bit ADC modules with up to 10 total input channels, two CAN ports and a variety of other popular interfaces (such as UART, I2C, and I2S serial audio)

Power Supply

The TXUL accepts an input voltage from various sources:

- 1-cell Li-Ion/Polymer (up to 4.2V)
- 5.0V USB supply or AC wall adapter
- 3.3V

Standard TXCOM pinout:

- 4-wire UARTs (x3)
- LCD
- I2C / PWM
- Serial Audio Interfaces
- 4-wire SD-Card/SDIO
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High-Speed communication interfaces incl. onboard Ethernet PHY / on-chip USB PHY allows direct use of connectors/magnetics on the baseboard without the need for additional logic:

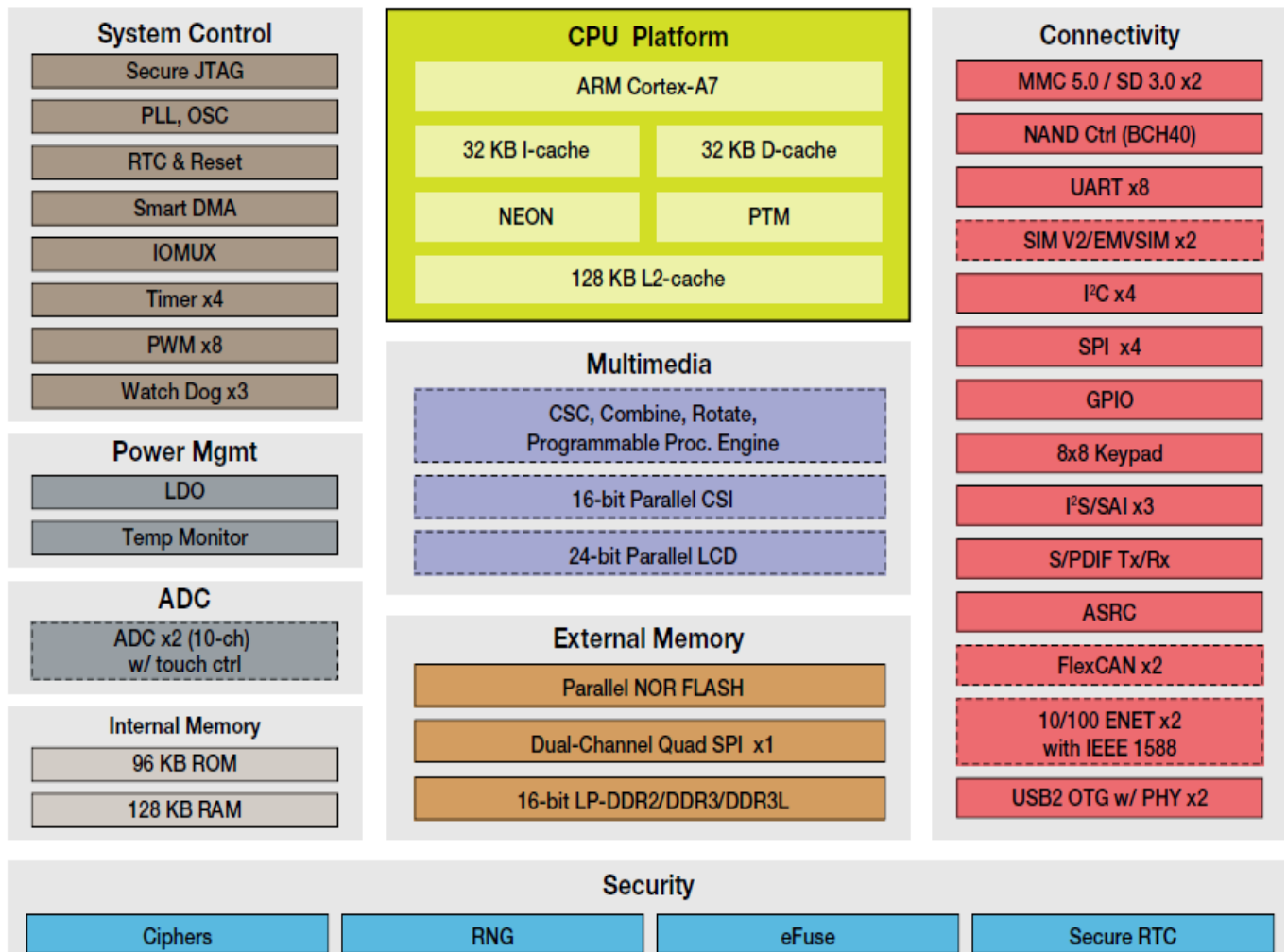
- 10/100 Mbps Ethernet
- 480 Mbps USB OTG (Host or Device)
- 480 Mbps USB Host

Read more in our TX-Guide:

www.karo-electronics.com/TX-Guide

Software and Tools

The TXUL Computer on Module is supported by standard TX development kits. The TX Mainboard 7 comes with an pre-installed Linux® operating system.



Order Number	CPU	SDRAM	Flash	Temp. Grade
TX6UL/528/256S/128F/I	528MHz MCIMX6G2	256MB	128MB SLC NAND	industrial -40°C..85°C
TX6UL/528/256S/4GF/E85	528MHz MCIMX6G2	256MB	4GB EMMC	industrial -25°C..85°C

PINOUT

PIN	Type	Function	i.MX6 UltraLite Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 UltraLite manuals for details)
POWER SUPPLY & RESET						
1-4	power	VIN				Module power supply input (3.3V-5V)
5-7, 9-12	power	VOOUT				3.3V power supply output. Supplied by RN5T567 DCDC4 (max. 300mA, VIN>4.3V)
8	3V3	BOOTMODE			10K-PU	Boot mode select H: Boot from NAND/eMMC / L: Boot from UART/USB
13	power		Connected through a 240 Ohms resistor to VDD_SNV5_IN			i.MX6UL SNVS backup power supply. Supply voltage must be held between 2.9V and 3.3V if the system requires keeping real time and other data on OFF state. This pin is connected to RN5T567 LDORTC1 (3V/30mA) through an onboard 240R resistor. Leave unconnected if the system does not require keeping real time and other data on OFF state.
14	VIN	PMIC_PWR_BTN			10K-PU	Connected to RN5T567 PWRON Leave unconnected, if not used.
15	3V3	#RESET_OUT			10K-PU	Connected to RN5T567 RESET0 May be used to reset peripherals on the carrier board.
16	VIN	#POR	POR_B		10K-PU	Power On Reset — Active low input signal Leave unconnected, if not used.
17		#RESET_IN	POR_B			Wire or'ed to pin 16
18	GND	GND				

Ethernet

19	analog	ETN_TXN				Transmit Data Negative: 100Base-TX or 10Base-T differential transmit output to magnetics.
20	3V3	#ETN_LED2				Active low - output is driven active when the operating speed is 100Mbps. This LED will go inactive when the operating speed is 10Mbps or during line isolation.
21	analog	ETN_TXP				Transmit Data Positive: 100Base-TX or 10Base-T differential transmit output to magnetics.
22	power	ETN_3V3				+3.3V analog power supply output to magnetics
23	analog	ETN_RXN				Receive Data Negative: 100Base-TX or 10Base-T differential receive input from magnetics.
24	3V3	#ETN_LED1				Active low - output is driven active whenever the device detects a valid link, and blinks indicating activity.
25	analog	ETN_RXP				Receive Data Positive: 100Base-TX or 10Base-T differential receive input from magnetics.
26	GND	GND				

USB-HOST

27	3V3	USBH_VBUSEN	GPIO1_IO02	I2C1_SCL GPT1_COMPARE2 USB_OTG2_PWR ENET1_REF_CLK_25M USDHC1_WP SDMA_EXT_EVENT00 SRC_ANY_PU_RESET UART1_TX	GPIO1_IO2	Active high external 5V supply enable. This pin is used to enable the external VBUS power supply.
28	3V3	#USBH_OC	GPIO1_IO03	I2C1_SDA GPT1_COMPARE3 USB_OTG2_OC USDHC1_CD_B CCM_DIO_EXT_CLK SRC_TESTER_ACK UART1_RX	GPIO1_IO03 10K-PU	Active low over-current indicator input connected to a GPIO.
29	analog	USBH_DM	USB_OTG2_DN			D- pin of the USB cable
30	analog	USBH_VBUS	USB_OTG2_VBUS			VBUS pin of the USB cable. This pin is used for the VBUS comparator inputs.
31	analog	USBH_DP	USB_OTG2_DP			D+ pin of the USB cable
32	GND	GND				

PIN	Type	Function	i.MX6 UltraLite Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 UltraLite manuals for details)
USB-OTG / 2 nd CAN						
33	Not connected					
34	3V3	USBOTG_VBUSEN CAN_TX	UART3_CTS_B	ENET2_RX_CLK FLEXCAN1_TX CSI_DATA10 ENET1_1588_EVENT1_IN EPIT2_OUT	GPIO1[26]	Active high external 5V supply enable. This pin is used to enable the external VBUS power supply.
35	analog	USBOTG_DM	USB_OTG1_DN			D- pin of the USB cable
36	3V3	#USBOTG_OC CAN_RX	UART3_RTS_B	ENET2_TX_ER FLEXCAN1_RX CSI_DATA11 ENET1_1588_EVENT1_OUT WDOG1_WDOG_B	GPIO1[27] 10K-PU	Active low over-current indicator input connected to a GPIO.
37	analog	USBOTG_DP	USB_OTG1_DP			D+ pin of the USB cable
38	analog	USBOTG_VBUS	USB_OTG1_VBUS			VBUS pin of the USB cable. This pin is used for the VBUS comparator inputs.
39	GND	GND				
I2C						
40	3V3	I2C_DATA	GPIO1_IO01	I2C2_SDA GPT1_COMPARE1 USB_OTG1_OC ENET2_REF_CLK2 MQS_LEFT ENET1_1588_EVENT0_OUT SRC_EARLY_RESET WDOG1_WDOG_B	GPIO1[1]	I2C Data
41	3V3	I2C_CLK	GPIO1_IO00	I2C2_SCL / MQS_RIGHT GPT1_CAPTURE1 ANATOP_OTG1_ID ENET1_REF_CLK1 ENET1_1588_EVENT0_IN SRC_SYSTEM_RESET WDOG3_WDOG_B	GPIO1[0]	I2C Clock
PWM						
42	3V3	PWM	NAND_DQS	RAWNAND_DQS CSI_FIELD / EIM_WAIT QSPI_A_SS0_B PWM5_OUT SDMA_EXT_EVENT01 SPDIF_EXT_CLK	GPIO4[16]	PWM Output
1-WIRE						
43	Not connected					
CSPI – Configurable Serial Peripheral Interface						
44	3V3	CSPI_SS	UART4_RX_DATA	ENET2_TDATA03 I2C1_SDA CSI_DATA13 CSU_CSU_ALARM_AUT01 ECSPI2_SS0	GPIO1[29]	Slave Select (Selectable polarity) signal
45	3V3	CSPI_SS	JTAG_MOD	SJC_MOD GPT2_CLK SPDIF_OUT ENET1_REF_CLK_25M CCM_PMIC_RDY SDMA_EXT_EVENT00	GPIO1[10]	Slave Select (Selectable polarity) signal
46	3V3	CSPI_MOSI	UART5_TX_DATA	ECSPI2_MOSI ENET2_CRIS I2C2_SCL CSI_DATA14 CSU_CSU_ALARM_AUT00	GPIO1[30]	Master Out/Slave In signal
47	3V3	CSPI_MISO	UART5_RX_DATA	ENET2_COL I2C2_SDA CSI_DATA15 CSU_CSU_INT_DEB ECSPI2_MISO	GPIO1[31]	Master In/Slave Out signal
48	3V3	CSPI_SCLK	UART4_TX_DATA	ENET2_TDATA02 I2C1_SCL CSI_DATA12 CSU_CSU_ALARM_AUT02 ECSPI2_SCLK	GPIO1[28]	Serial Clock signal
49	Not connected					
50	GND	GND				

PIN	Type	Function	i.MX6 UltraLite Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 UltraLite manuals for details)
SD – Secure Digital Interface 1						
51	3V3	SD1_CD	NAND_CE1_B	RAWNAND_CE1_B USDHC1_DATA6 QSPI_A_DATA02 ECSP13_MOSI EIM_ADDR18 UART3_CTS_B	GPIO4[14]	SD Card Detect – connected to a GPIO
52	3V3	SD1_D[0]	SD1_DATA0	USDHC1_DATA0 GPT2_COMPARE3 SAI2_TX_SYNC FLEXCAN1_TX EIM_ADDR21 ANATOP_OTG1_ID	GPIO2[18]	SD Data bidirectional signals—If the system designer does not want to make use of the internal pull-up, via the Pull-up enable register, a 50 K–69 K external pull up resistor must be added.
53	3V3	SD1_D[1]	SD1_DATA1	USDHC1_DATA1 GPT2_CLK SAI2_TX_BCLK FLEXCAN1_RX EIM_ADDR22 USB_OTG2_PWR	GPIO2[19]	
54	3V3	SD1_D[2]	SD1_DATA2	USDHC1_DATA2 GPT2_CAPTURE1 SAI2_RX_DATA FLEXCAN2_TX EIM_ADDR23 CCM_CLKO1 USB_OTG2_OC	GPIO2[20]	
55	3V3	SD1_D[3]	SD1_DATA3	USDHC1_DATA3 GPT2_CAPTURE2 SAI2_TX_DATA FLEXCAN2_RX EIM_ADDR24 CCM_CLKO2 ANATOP_OTG2_ID	GPIO2[21]	
56	3V3	SD1_CMD	SD1_CMD	USDHC1_CMD GPT2_COMPARE1 SAI2_RX_SYNC SPDIF_OUT EIM_ADDR19 SDMA_EXT_EVENT00 USB_OTG1_PWR	GPIO2[16]	SD Command bidirectional signal
57	3V3	SD1_CLK	SD1_CLK	USDHC1_CLK GPT2_COMPARE2 SAI2_MCLK SPDIF_IN EIM_ADDR20 USB_OTG1_OC	GPIO2[17]	SD Output Clock.
58	GND	GND				
1st UART						
59	3V3	TXD	UART1_TX_DATA	ENET1_RDATA02 I2C3_SCL CSI_DATA02 GPT1_COMPARE1 SPDIF_OUT	GPIO1[16]	Application UART 1 Transmit Data output signal
60	3V3	RXD	UART1_RX_DATA	ENET1_RDATA03 I2C3_SDA CSI_DATA03 GPT1_CLK SPDIF_IN	GPIO1[17]	Application UART 1 Receive Data input signal
61	3V3	RTS	UART1_RTS_B	ENET1_TX_ER USDHC1_CD_B CSI_DATA05 ENET2_1588_EVENT1_OUT USDHC2_CD_B	GPIO1[19]	Application UART 1 Request to Send input signal
62	3V3	CTS	UART1_CTS_B	ENET1_RX_CLK USDHC1_WP CSI_DATA04 ENET2_1588_EVENT1_IN USDHC2_WP	GPIO1[18]	Application UART 1 Clear to Send output signal

PIN	Type	Function	i.MX6 UltraLite Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 UltraLite manuals for details)
2nd UART						
63	3V3	TXD	UART2_TX_DATA	ENET1_TDATA02 I2C4_SCL CSI_DATA06 GPT1_CAPTURE1 ECSP13_SS0	GPIO1[20]	Application UART 2 Transmit Data output signal
64	3V3	RXD	UART2_RX_DATA	ENET1_TDATA03 I2C4_SDA CSI_DATA07 GPT1_CAPTURE2 SJC_DONE ECSP13_SCLK	GPIO1[21]	Application UART 2 Receive Data input signal
65	3V3	RTS	UART3_RX_DATA	ENET2_RDATA03 SIM2_PORT0_PD CSI_DATA00 UART2_RTS_B EPIT1_OUT	GPIO1[25]	Application UART 2 Request to Send input signal
66	3V3	CTS	UART3_TX_DATA	UART3_TX ENET2_RDATA02 SIM1_PORT0_PD CSI_DATA01 UART2_CTS_B SJC_JTAG_ACT ANATOP_OTG1_ID	GPIO1[24]	Application UART 2 Clear to Send output signal
3rd UART						
67	3V3	TXD	GPIO1_IO04	ENET1_REF_CLK1 PWM3_OUT USB_OTG1_PWR USDHC1_RESET_B ENET2_1588_EVENT0_IN UART5_TX_uart5	GPIO1[4]	Application UART 5 Transmit Data output signal
68	3V3	RXD	GPIO1_IO05	ENET2_REF_CLK2 PWM4_OUT ANATOP_OTG2_ID CSI_FIELD USDHC1_VSELECT ENET2_1588_EVENT0_OUT UART5_RX	GPIO1[5]	Application UART 5 Receive Data input signal
69	3V3	RTS	GPIO1_IO08	PWM1_OUT WDOG1_WDOG_B SPDIF_OUT CSI_VSYNC USDHC2_VSELECT CCM_PMIC_RDY UART5_RTS_B	GPIO1[8]	Application UART 5 Request to Send input signal
70	3V3	CTS	GPIO1_IO09	PWM2_OUT WDOG1_WDOG_ANY SPDIF_IN CSI_HSYNC USDHC2_RESET_B USDHC1_RESET_B UART5_CTS_B	GPIO1[9]	Application UART 5 Clear to Send output signal
71	GND	GND				
KEYPAD / 1st CAN						
72	3V3	KP_COL[0]	ENET2_RX_DATA1	UART6_RX SIM1_PORT0_CLK I2C3_SDA ENET1_MDC KPP_COL04 USB_OTG1_OC	GPIO2[9]	
73	3V3	KP_COL[1]	ENET2_TX_DATA0	UART7_RX SIM1_PORT0_SVEN I2C4_SDA EIM_EB_B02 KPP_COL05	GPIO2[11]	
74	3V3	KP_COL[2]	ENET2_TX_EN	UART8_RX SIM2_PORT0_CLK ECSP14_MOSI EIM_ACLK_FREERUN KPP_COL06 USB_OTG2_OC	GPIO2[13]	
75	3V3	KP_COL[3]	ENET2_RX_ER	UART8_RTS_B SIM2_PORT0_SVEN ECSP14_SS0 EIM_ADDR25 KPP_COL07 WDOG1_WDOG_ANY	GPIO2[15]	

PIN	Type	Function	i.MX6 UltraLite Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 UltraLite manuals for details)
76	3V3	TXCAN	UART2_CTS_B	ENET1_CRS FLEXCAN2_TX CSI_DATA08 GPT1_COMPARE2 SJC_DE_B ECSPI3_MOSI	GPIO1[22]	
77	3V3	KP_ROW[0]	ENET2_RX_DATA0	UART6_TX SIM1_PORT0_TRXD I2C3_SCL ENET1_MDIO KPP_ROW04 USB_OTG1_PWR	GPIO2[8]	
78	3V3	KP_ROW[1]	ENET2_RX_EN	UART7_TX SIM1_PORT0_RST_B I2C4_SCL EIM_ADDR26 KPP_ROW05 ENET1_REF_CLK_25M	GPIO2[10]	
79	3V3	KP_ROW[2]	ENET2_TX_DATA1	UART8_TX SIM2_PORT0_TRXD ECSPI4_SCLK EIM_EB_B03 KPP_ROW06 USB_OTG2_PWR	GPIO2[12]	
80	3V3	KP_ROW[3]	ENET2_TX_CLK	UART8_CTS_B SIM2_PORT0_RST_B ECSPI4_MISO ENET2_REF_CLK2 KPP_ROW07 ANATOP_OTG2_ID	GPIO2[14]	
81	3V3	RXCAN	UART2_RTS_B	ENET1_COL FLEXCAN2_RX CSI_DATA09 GPT1_COMPARE3 SJC_FAIL ECSPI3_MISO	GPIO1[23]	
82	GND	GND				

SSI 1 - Serial Audio Port 1

83	3V3	SSI1_INT	JTAG_TMS	SJC_TMS GPT2_CAPTURE1 SAI2_MCLK CCM_CLK01 CCM_WAIT SDMA_EXT_EVENT01 EPIT1_OUT	GPIO1[11]	GPIO
84	3V3	SSI1_RXD	JTAG_TCK	SJC_TCK GPT2_COMPARE2 SAI2_RX_DATA PWM7_OUT SIM2_POWER_FAIL	GPIO1[14]	Serial Audio Interface serial data line 1
85	3V3	SSI1_TXD	JTAG_TRST_B	SJC_TRSTB GPT2_COMPARE3 SAI2_TX_DATA PWM8_OUT CAAM_RNG_OSC_OBS	GPIO1[15]	Serial Audio Interface serial data line 0
86	3V3	SSI1_CLK	JTAG_TDI	SJC_TDI GPT2_COMPARE1 SAI2_TX_BCLK PWM6_OUT MQS_LEFT SIM1_POWER_FAIL	GPIO1[13]	Serial Audio Interface serial bit clock
87	3V3	SSI1_FS	JTAG_TDO	SJC_TDO GPT2_CAPTURE2 SAI2_TX_SYNC CCM_CLK02 CCM_STOP MQS_RIGHT EPIT2_OUT	GPIO1[12]	Serial Audio Interface left/right clock
88	GND	GND				

SSI 2 - Serial Audio Port 2

89				Not connected		
90				Not connected		
91				Not connected		
92				Not connected		
93				Not connected		
94	GND	GND				

PIN	Type	Function	i.MX6 UltraLite Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 UltraLite manuals for details)
Secure Digital Interface 2						
95				Not connected		
96				Not connected		
97				Not connected		
98				Not connected		
99				Not connected		
100				Not connected		
101				Not connected		
102	GND	GND				
CMOS Sensor Interface						
103	3V3	CSI0_DAT12	CSI_DATA00	CSI_DATA02 USDHC2_DATA0 SIM1_PORT1_RST_B ECSP12_SCLK EIM_AD00 SRC_INT_BOOT / UART5_TX	GPIO4[21]	
104	3V3	CSI0_DAT13	CSI_DATA01	CSI_DATA03 USDHC2_DATA1 SIM1_PORT1_SVEN ECSP12_SS0 EIM_AD01 SAI1_MCLK / UART5_RX	GPIO4[22]	
105	3V3	CSI0_DAT14	CSI_DATA02	CSI_DATA04 USDHC2_DATA2 SIM1_PORT1_TRXD ECSP12_MOSI EIM_AD02 / UART5_RTS_B SAI1_RX_SYNC	GPIO4[23]	
106	3V3	CSI0_DAT15	CSI_DATA03	CSI_DATA05 USDHC2_DATA3 SIM2_PORT1_PD ECSP12_MISO EIM_AD03 / UART5_CTS_B SAI1_RX_BCLK	GPIO4[24]	
107	3V3	CSI0_DAT16	CSI_DATA04	CSI_DATA06 USDHC2_DATA4 SIM2_PORT1_CLK ECSP11_SCLK EIM_AD04 / USDHC1_WP SAI1_TX_SYNC	GPIO4[25]	
108	3V3	CSI0_DAT17	CSI_DATA05	CSI_DATA07 USDHC2_DATA5 SIM2_PORT1_RST_B ECSP11_SS0 EIM_AD05 / USDHC1_CD_B SAI1_TX_BCLK	GPIO4[26]	
109	3V3	CSI0_DAT18	CSI_DATA06	CSI_DATA08 USDHC2_DATA6 SIM2_PORT1_SVEN ECSP11_MOSI EIM_AD06 / SAI1_RX_DATA USDHC1_RESET_B	GPIO4[27]	
110	3V3	CSI0_DAT19	CSI_DATA07	CSI_DATA09 USDHC2_DATA7 SIM2_PORT1_TRXD ECSP11_MISO EIM_AD07 / SAI1_TX_DATA USDHC1_VSELECT	GPIO4[28]	
111	GND	GND				
112	3V3	CSI0_HSYNC	CSI_HSYNC	USDHC2_CMD SIM1_PORT1_PD I2C2_SCL / EIM_LBA_B PWM8_OUT / UART6_CTS_B	GPIO4[20]	
113	3V3	CSI0_VSYNC	CSI_VSYNC	USDHC2_CLK SIM1_PORT1_CLK I2C2_SDA / EIM_RW PWM7_OUT / UART6_RTS_B	GPIO4[19]	
114	3V3	CSI0_PIXCLK	CSI_PIXCLK	USDHC2_WP / UART6_RX RAWNAND_CE3_B I2C1_SCL / EIM_OE SNVS_HP_VIO_5	GPIO4[18]	
115	3V3	CSI0_MCLK	CSI_MCLK	USDHC2_CD_B RAWNAND_CE2_B I2C1_SDA / EIM_CS0_B SNVS_HP_VIO_5_CTL UART6_TX	GPIO4[17]	
116	GND	GND				

PIN	Type	Function	i.MX6 UltraLite Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 UltraLite manuals for details)
LCD Controller						
117	3V3	LD0	LCD_DATA00	PWM1_OUT ENET1_1588_EVENT2_I2C3_SDA SRC_BT_CFG00 SAI1_MCLK	GPIO3[5]	TX6DL standard version: LCD Data Bus
118	3V3	LD1	LCD_DATA01	PWM2_OUT ENET1_1588_EVENT2_OUT_I2C3_SCL SRC_BT_CFG01 SAI1_TX_SYNC	GPIO3[6]	TX6DL standard version: LCD Data Bus
119	3V3	LD2	LCD_DATA02	PWM3_OUT ENET1_1588_EVENT3_IN_I2C4_SDA SRC_BT_CFG02 SAI1_TX_BCLK	GPIO3[7]	TX6DL standard version: LCD Data Bus
120	3V3	LD3	LCD_DATA03	PWM4_OUT ENET1_1588_EVENT3_OUT_I2C4_SCL SRC_BT_CFG03 SAI1_RX_DATA	GPIO3[8]	TX6DL standard version: LCD Data Bus
121	3V3	LD4	LCD_DATA04	UART8_CTS_B ENET2_1588_EVENT2_IN_SPDIF_SR_CLK SRC_BT_CFG04 SAI1_TX_DATA	GPIO3[9]	TX6DL standard version: LCD Data Bus
122	3V3	LD5	LCD_DATA05	UART8_RTS_B ENET2_1588_EVENT2_OUT_SPDIF_OUT SRC_BT_CFG05 ECSPI1_SS1	GPIO3[10]	TX6DL standard version: LCD Data Bus
123	3V3	LD6	LCD_DATA06	UART7_CTS_B ENET2_1588_EVENT3_IN_SPDIF_LOCK SRC_BT_CFG06 ECSPI1_SS2	GPIO3[11]	TX6DL standard version: LCD Data Bus
124	3V3	LD7	LCD_DATA07	UART7_RTS_B ENET2_1588_EVENT3_OUT_SPDIF_EXT_CLK SRC_BT_CFG07 ECSPI1_SS3	GPIO3[12]	TX6DL standard version: LCD Data Bus
125	3V3	LD8	LCD_DATA08	SPDIF_IN CSI_DATA16 EIM_DATA00 SRC_BT_CFG08 FLEXCAN1_TX	GPIO3[13]	TX6DL standard version: LCD Data Bus
126	3V3	LD9	LCD_DATA09	SAI3_MCLK CSI_DATA17 EIM_DATA01 SRC_BT_CFG09 FLEXCAN1_RX	GPIO3[14]	TX6DL standard version: LCD Data Bus
127	3V3	LD10	LCD_DATA10	SAI3_RX_SYNC CSI_DATA18 EIM_DATA02 SRC_BT_CFG10 FLEXCAN2_TX	GPIO3[15]	TX6DL standard version: LCD Data Bus
128	3V3	LD11	LCD_DATA11	SAI3_RX_BCLK CSI_DATA19 EIM_DATA03 SRC_BT_CFG11 FLEXCAN2_RX	GPIO3[16]	TX6DL standard version: LCD Data Bus
129	GND	GND				
130	3V3	LD12	LCD_DATA12	SAI3_TX_SYNC CSI_DATA20 EIM_DATA04 SRC_BT_CFG12 ECSPI1_RDY	GPIO3[17]	TX6DL standard version: LCD Data Bus
131	3V3	LD13	LCD_DATA13	SAI3_TX_BCLK CSI_DATA21 EIM_DATA05 SRC_BT_CFG13 USDHC2_RESET_B	GPIO3[18]	TX6DL standard version: LCD Data Bus

PIN	Type	Function	i.MX6 UltraLite Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 UltraLite manuals for details)
132	3V3	LD14	LCD_DATA14	SAI3_RX_DATA CSI_DATA22 EIM_DATA06 SRC_BT_CFG14 USDHC2_DATA4	GPIO3[19]	TX6DL standard version: LCD Data Bus
133	3V3	LD15	LCD_DATA15	SAI3_TX_DATA CSI_DATA23 EIM_DATA07 SRC_BT_CFG15 USDHC2_DATA5	GPIO3[20]	TX6DL standard version: LCD Data Bus
134	3V3	LD16	LCD_DATA16	UART7_TX CSI_DATA01 EIM_DATA08 SRC_BT_CFG24 USDHC2_DATA6	GPIO3[21]	TX6DL standard version: LCD Data Bus
135	3V3	LD17	LCD_DATA17	UART7_RX CSI_DATA00 EIM_DATA09 SRC_BT_CFG25 USDHC2_DATA7	GPIO3[22]	TX6DL standard version: LCD Data Bus
136	3V3	LD18	LCD_DATA18	PWM5_OUT CA7_MX6UL_EVENTO CSI_DATA10 EIM_DATA10 SRC_BT_CFG26 USDHC2_CMD	GPIO3[23]	TX6DL standard version: LCD Data Bus
137	3V3	LD19	LCD_DATA19	EIM_DATA11 SRC_BT_CFG27 USDHC2_CLK PWM6_OUT WDOG1_WDOG_ANY CSI_DATA11	GPIO3[24]	TX6DL standard version: LCD Data Bus
138	3V3	LD20	LCD_DATA20	EIM_DATA12 SRC_BT_CFG28 USDHC2_DATA0 UART8_TX ECSP11_SCLK CSI_DATA12	GPIO3[25]	TX6DL standard version: LCD Data Bus
139	3V3	LD21	LCD_DATA21	UART8_RX ECSP11_SS0 CSI_DATA13 EIM_DATA13 SRC_BT_CFG29 USDHC2_DATA1	GPIO3[26]	TX6DL standard version: LCD Data Bus
140	3V3	LD22	LCD_DATA22	MQS_RIGHT ECSP11_MOSI CSI_DATA14 EIM_DATA14 SRC_BT_CFG30 USDHC2_DATA2	GPIO3[27]	TX6DL standard version: LCD Data Bus
141	3V3	LD23	LCD_DATA23	MQS_LEFT ECSP11_MISO CSI_DATA15 EIM_DATA15 SRC_BT_CFG31 USDHC2_DATA3	GPIO3[28]	TX6DL standard version: LCD Data Bus
142	GND	GND				
143	3V3	HSYNC	LCD_HSYNC	LCDIF_RS UART4_CTS_B SAI3_TX_BCLK WDOG3_WDOG_RST_B_DEB ECSP12_SS1	GPIO3[2]	
144	3V3	VSYNC	LCD_VSYNC	LCDIF_BUSY UART4_RTS_B SAI3_RX_DATA WDOG2_WDOG_B ECSP12_SS2	GPIO3[3]	
145	3V3	OE_ACD	LCD_ENABLE	LCDIF_RD_E UART4_RX SAI3_TX_SYNC EIM_CS3_B ECSP12_RDY	GPIO3[1]	
146	3V3	LSCLK	LCD_CLK	LCDIF_WR_RWN UART4_TX SAI3_MCLK EIM_CS2_B WDOG1_WDOG_RST_B_DEB	GPIO3[0]	
147	GND	GND				

PIN	Type	Function	i.MX6 UltraLite Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 UltraLite manuals for details)
Module Specific Signals						
148	3V0		SNVS_TAMPER2		GPIO5[2]	
149	3V0		SNVS_TAMPER3		GPIO5[3]	
150	3V3		LCD_RESET	LCDIF_CS CA7_MX6UL_EVENTI SAI3_TX_DATA WDOG1_WDOG_ANY ECSPI2_SS3	GPIO3[4]	
151	3V0		SNVS_TAMPER4		GPIO5[4]	
152	3V0		SNVS_TAMPER8		GPIO5[8]	
153	3V0		SNVS_TAMPER9		GPIO5[9]	
154				Not connected		
155				Not connected		
156				Not connected		
157				Not connected		
158				Not connected		
159				Not connected		
160	GND	GND				
161				Not connected		
162				Not connected		
163				Not connected		
164				Not connected		
165				Not connected		
166	LVDS		CCM_CLK1_P			General purpose differential high speed clock input/output
167				Not connected		
168	LVDS		CCM_CLK1_N			General purpose differential high speed clock input/output
169				Not connected		
170				Not connected		
171	GND	GND				
172				Not connected		
173				Not connected		
174				Not connected		
175				Not connected		
176				Not connected		
177				Not connected		
178				Not connected		
179				Not connected		
180				Not connected		
181				Not connected		
182				Not connected		
183	GND	GND				
184				Not connected		
185				Not connected		
186				Not connected		
187				Not connected		
188				Not connected		
189				Not connected		
190				Not connected		
191				Not connected		
192				Not connected		
193				Not connected		
194				Not connected		
195				Not connected		
196				Not connected		
197	3V3				10K-PU	Connected to RN5T567 INTB Leave unconnected, if not used.
198	3V3		GPIO1_IO07			Fixed function ENET_MDC used for Ethernet PHY
199	3V3		GPIO1_IO06		1K-PU	Fixed function ENET_MDIO used for Ethernet PHY
200	GND	GND				



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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