

Computer On Module

- Processor Quad ARM® Cortex®-A9 based NXP i.MX6 Quad, 1GHz
- RAM 1GB DDR3 SDRAM 64-bit
- ROM 128MB SLC NAND Flash
- Power supply Single 3.1V to 5.5V
- Size 31mm SO-DIMM
- Temperature Grade Extended Consumer (-20°C to 105°C Tj)

Key Features

- 10/100Mbps Ethernet
- Two High Speed USB 2.0 ports
- Full HD LCD controller, 24bpp
- OpenGL ES 2.0 and OpenVG 1.1 hardware accelerators
- Multi-format HD 1080p60 video decoder and 1080p30 encoder hardware engine
- Two Camera Interfaces
- NEON MPE coprocessor
 - SIMD Media Processing Architecture
 - dual, single-precision floating point execute pipeline
- Unified 1MB L2 cache
- Several interfaces:
 - 3x UART, 2x SDIO, 2x SSI/AC97/I2S, I2C, CSPI, Keypad, Ext. Memory I/F
- 3.3V I/O
- IEEE1588 support
- 2x Controller Area Network (FlexCAN)
- PCIe 2.0 (1-lane)

LVDS Option only:

- Dual LVDS display port
- SATA

OS Support

- Windows Embedded Compact 7
- Linux
- Android by kernel concepts www.kernelconcepts.de
- QNX by SITRE www.sitre.fr



**Quad
Cortex®-A9**



Board highlights:

- Highly integrated
- Standard TX-DIMM pinout
- as small as possible - only 31mm
- 3.3V I/O

The TX6 is a member of the TXCOM module series, specially designed for i.MX multimedia processors. TXCOM modules are complete computers, implemented on a board smaller than a credit card, and ready to be designed into your embedded system. TXCOM modules includes an i.MX processor, SDRAM and Flash memory. The integrated LCD-controller enables direct connection of an LCD screen. The TX6 is specifically targeted at embedded applications where size, high cpu-performance and cost are critical factors.

Computer on module

- NXP i.MX6 Quad, 1 GHz
- 1GByte SDRAM (64bit) DDR3-1066
- 128 MByte SLC NAND Flash memory
- DIMM200-module (67,6mm x 31 mm x 4mm)
- Operating temperature ranges (Processor junction temperature)
Extended Consumer Grade: -20°C ..105°C
Industrial Grade: -40°C ..105°C
Automotive Grade: -40°C ..125°C, AEC-Q100 Grade 3

Processor

The i.MX 6Dual and i.MX 6Quad processors represent NXP Semiconductors' latest achievement in integrated multimedia applications processors. These processors are part of a growing family of multimedia-focused products that offer high performance processing and are optimized for lowest power consumption. The i.MX 6Dual and i.MX 6Quad processors feature NXP's advanced implementation of the quad ARM Cortex™-A9 core, which operates at speeds up to 1 GHz. They include 2D and 3D graphics processors, 3D 1080p video processing, and integrated power management. Each processor provides a 64-bit DDR3/LVDDR3/LPDDR2-1066 memory interface and a number of other interfaces for connecting peripherals, such as WLAN, Bluetooth™, GPS, hard drive, displays, and camera sensors.

High Performance CPU : Quad ARM® Cortex®-A9

- Quad ARM® Cortex®-A9, with ARMv7™, Neon, VFPv3 and Trustzone support
- 32K instruction and data L1 caches and 256 KB to 1 MB of L2 cache
- Multi-stream-capable HD video engine delivering 1080p60 decode, 1080p30 encode and 3D video playback in HD in high performance families
- Superior 3D graphics performance with up to quad shaders performing 200 MT/s
Separate 2D and/or Vertex acceleration engines for an optimal user interface experience
- Stereoscopic image sensor support for 3D imaging

Standard TXCOM pinout:

- 4-wire UARTs (x3)
- LCD
- I2C / PWM
- Serial Audio Interfaces (x2)
- 4-wire SD-Card/SDIO

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

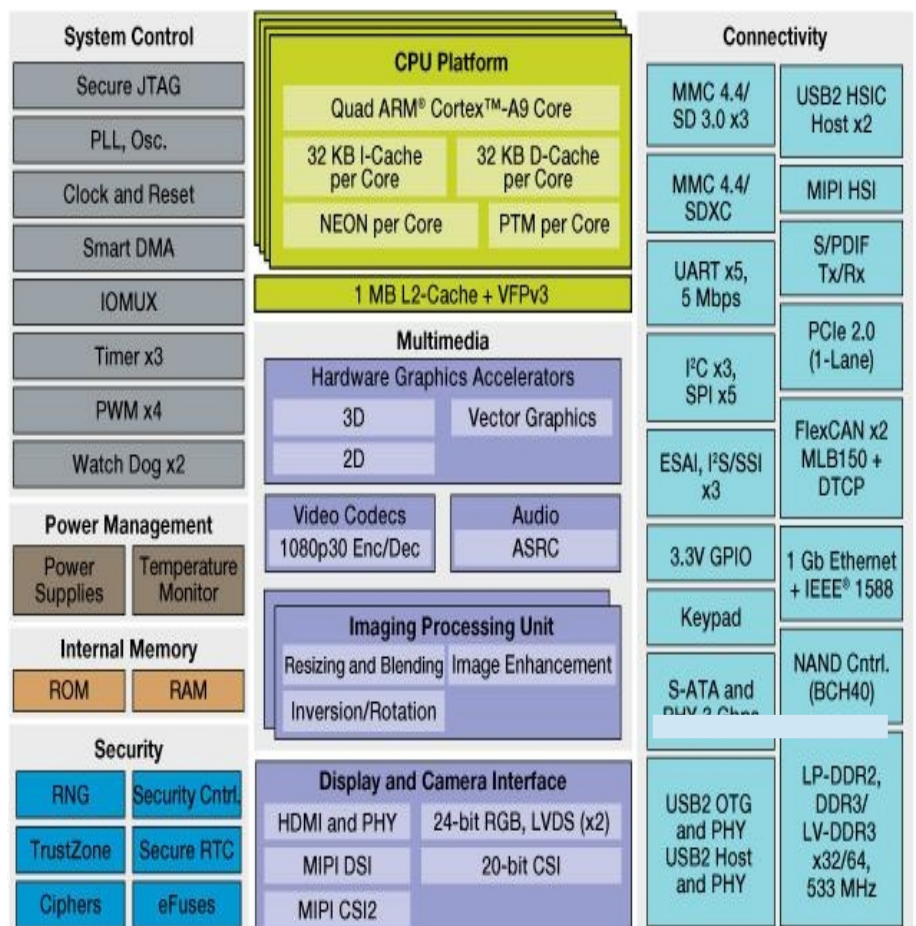
Power Supply

The TX6 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

Read more in our TX-Guide:

www.karo-electronics.com/TX-Guide



Order Number	CPU	SDRAM	Flash	Temp. Grade
TX6Q/1000/1024S/128F	1GHz MCIMX6Q5 Quad Core Consumer	1GB	128MB	Extended Consumer
TX6Q/1000/1024S/8GF	1GHz MCIMX6Q5 Quad Core Consumer	1GB	8GB	Extended Consumer
TX6Q/1000/1024S/128F/MIPI	1GHz MCIMX6Q5 Quad Core Consumer	1GB	128MB	Extended Consumer

PINOUT

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
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POWER SUPPLY & RESET

1-4	power	VIN				Module power supply input (3.3V-5V, observe DIMM socket contact current rating)
5-7, 9-12	power	VOUT				3.3V power supply output. Supplied by RN5T567 LDO2 (max. 300mA)
8	3V3	BOOTMODE			10K-PU	Boot mode select H: Boot from NAND / L: Boot from UART/USB
13	power	VBACKUP	Version with DS1339 RTC			
						DS1339 RTC backup power supply. Supply voltage must be held between 1.3V and 3.7V for proper RTC operation. This pin can be connected to a primary cell such as a lithium button cell. Additionally, this pin can be connected to a rechargeable cell or a super cap when used with the trickle charge feature.
			Version without DS1339 RTC			
			Connected through a 240 Ohms resistor to VDD_SNV5_IN			i.MX6 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				Connected to RN5T567 PWRON, 10K-PU connected to VIN Leave unconnected, if not used.
15	3V3	#RESET_OUT	GPIO_17	ESAI1_TX0 ENET_1588_EVENT3_IN CCM_PMIC_RDY SDMA_EXT_EVENT[0] SPDIF_OUT1 SJC_JTAG_ACT	GPIO7[12]	#RESET_OUT may be used to reset peripherals on the carrier board. This signal can be controlled by a GPIO function during runtime.
16		#POR	POR_B		10K-PU	Power On Reset — Active low input signal Leave unconnected, if not used.
17		#RESET_IN	POR_B			Wire ored 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	EIM_D31	WEIM_D[31] IPU1_DISP1_DAT[20] IPU1_DIO_PIN12 IPU1_CSI0_D[2] UART3_RTS USBOH3_USBH1_PWR MX6Q_PER_HPROT[1]	GPIO3[31]	Active high external 5V supply enable. This pin is used to enable the external VBUS power supply.
28	3V3	#USBH_OC	EIM_D30	WEIM_D[30] IPU1_DISP1_DAT[21] IPU1_DIO_PIN11 IPU1_CSI0_D[3] UART3_CTS USBOH3_USBH1_OC MX6Q_PER1_HPROT[0]	GPIO3[30] 10K-PU	Active low over-current indicator input connected to a GPIO.
29	analog	USBH_DM	USB_H1_DN			D- pin of the USB cable
30	analog	USBH_VBUS	USB_H1_VBUS			VBUS pin of the USB cable. This pin is used for the VBUS comparator inputs.
31	analog	USBH_DP	USB_H1_DP			D+ pin of the USB cable
32	GND	GND				

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
USB-OTG / 2nd CAN						
33	3V3	USBOTG_ID	EIM_D23	WEIM_D[23] DI0_D0_CS UART3_CTS UART1_DCD IPU2_CSI1_DATA_EN IPU1_DI1_PIN2 IPU1_DI1_PIN14	GPIO3[23]	
34	3V3	USBOTG_VBUSEN CAN_TX	GPIO_7	ESAI1_TX4_RX1 ECSP15_RDY EPIT1_EPITO CAN1_TXCAN UART2_TXD_MUX SPDIF_PLOCK OTGUSB_HOST_MODE	GPIO1[7]	Active high external 5V supply enable. This pin is used to enable the external VBUS power supply.
35	analog	USBOTG_DM	USB_OTG_DN			D- pin of the USB cable
36	3V3	#USBOTG_OC CAN_RX	GPIO_8	ESAI1_TX5_RX0 EPIT2_EPITO CAN1_RXCAN UART2_RXD_MUX SPDIF_SRCLK USB_PWRCTL_WAKEUP	GPIO1[8] 10K-PU	Active low over-current indicator input connected to a GPIO.
37	analog	USBOTG_DP	USB_OTG_DP			D+ pin of the USB cable
38	analog	USBOTG_VBUS	USB_OTG_VBUS			VBUS pin of the USB cable. This pin is used for the VBUS comparator inputs.
39	GND	GND				
I2C						
40	3V3	I2C_DATA	GPIO_6	ESAI1_SCKT OBSRV_INT_OUT1 I2C3_SDA CCM_CCM_OUT_0 CSU_CSU_INT_DEB USDHC2_LCTL MLB_MLB SIG	GPIO1[6]	I2C Data
41	3V3	I2C_CLK	GPIO_3	ESAI1_HCKR OBSRV_INT_OUT0 I2C3_SCL CCM_CLK02 USBOH3_USBH1_OC MLB_MLBCLK	GPIO1[3]	I2C Clock
PWM						
42	3V3	PWM	GPIO_1	ESAI1_SCKR WDOG2_WDOG_B KPP_ROW[5] PWM2_PWM0 USDHC1_CD SRC_TESTER_ACK	GPIO1[1]	PWM Output
1-WIRE						
43	3V3	OWDAT	GPIO_18	ESAI1_TX1 ENET_RX_CLK USDHC3_VSELECT SDMA_EXT_EVENT[1] ASRC_ASRC_EXT_CLK SNVS_VIO_5_CTL SRC_SYSTEM_RST	GPIO7[13]	1-Wire bus. Requires an external pull-up resistor. The recommended resistor is specified by the generic 1-Wire device used in a given system.
CSPI – Configurable Serial Peripheral Interface						
44	3V3	CSPI_SS	EIM_EB2	WEIM_EB[2] ECSP11_SS0 CCM_DI1_EXT_CLK IPU2_CSI1_D[19] HDMI_TX_DDC_SCL I2C2_SCL SRC_BT_CFG[30]	GPIO2[30]	Slave Select (Selectable polarity) signal
45	3V3	CSPI_SS	EIM_D19	WEIM_D[19] ECSP11_SS1 IPU1_DI0_PIN8 IPU2_CSI1_D[16] UART1_CTS EPIT1_EPITO MX6Q_PER_HRESP	GPIO3[19]	Slave Select (Selectable polarity) signal

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
46	3V3	CSPI_MOSI	EIM_D18	WEIM_D[18] ECSPI1_MOSI IPU1_DIO_PIN7 IPU2_CSI1_D[17] IPU1_DI1_D0_CS I2C3_SDA MX6Q_PER_HBURST[2]	GPIO3[18]	Master Out/Slave In signal
47	3V3	CSPI_MISO	EIM_D17	WEIM_D[17] ECSPI1_MISO IPU1_DIO_PIN6 IPU2_CSI1_PIXCLK DCIC1_DCIC_OUT I2C3_SCL MX6Q_PER_HBURST[1]	GPIO3[17]	Master In/Slave Out signal
48	3V3	CSPI_SCLK	EIM_D16	WEIM_D[16] ECSPI1_SCLK IPU1_DIO_PIN5 IPU2_CSI1_D[18] HDMI_TX_DDC_SDA I2C2_SDA	GPIO3[16]	Serial Clock signal
49	3V3	CSPI_RDY	GPIO_19	KPP_COL[5] ENET_1588_EVENT0 SPDIF_OUT1 CCM_CLKO ECSPI1_RDY ENET_TX_ER SRC_INT_BOOT	GPIO4[5]	Serial Data Ready signal
50	GND	GND				

SD – Secure Digital Interface 1

51	3V3	SD1_CD	SD3_CMD	USDHC3_CMD UART2_CTS CAN1_TXCAN USBOH3_UH3_ DFD_OUT[4] USBOH3_UH2_ DFD_OUT[4] MIPI_CORE_DPHY_ TEST_IN[16]	GPIO7[2]	SD Card Detect – connected to a GPIO
52	3V3	SD1_D[0]	SD1_DAT0	USDHC1_DAT0 ECSPI5_MISO CAAM_WRAPPER_ RNG_OSC_OBS GPT_CAPIN1 PCIE_CTRL_DIAG_ STATUS_BUS_MUX[8] HDMI_TX_OPHYDTB[1]	GPIO1[16]	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_DAT1	USDHC1_DAT1 ECSPI5_SS0 PWM3_PWM0 GPT_CAPIN2 PCIE_CTRL_DIAG_ STATUS_BUS_MUX[7] HDMI_TX_OPHYDTB[0]	GPIO1[17]	
54	3V3	SD1_D[2]	SD1_DAT2	USDHC1_DAT2 ECSPI5_SS1 GPT_CMPOUT2 PWM2_PWM0 WDOG1_WDOG_B WDOG1_WDOG_ RST_B_DEB	GPIO1[19]	
55	3V3	SD1_D[3]	SD1_DAT3	USDHC1_DAT3 ECSPI5_SS2 GPT_CMPOUT3 PWM1_PWM0 WDOG2_WDOG_B WDOG2_WDOG_ RST_B_DEB	GPIO1[21]	
56	3V3	SD1_CMD	SD1_CMD	USDHC1_CMD ECSPI5_MOSI PWM4_PWM0 GPT_CMPOUT1	GPIO1[18]	SD Command bidirectional signal
57	3V3	SD1_CLK	SD1_CLK	USDHC1_CLK ECSPI5_SCLK OSC32K_32K_OUT GPT_CLKIN PHY_DTB[0] SATA_PHY_DTB[0]	GPIO1[20]	SD Output Clock.
58	GND	GND				

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
1st UART						
59	3V3	TXD	SD3_DAT7	USDHC3_DAT7 UART1_TXD_MUX PCIE_CTRL_DIAG_ STATUS_BUS_MUX[24] USBOH3_UH3_ DFD_OUT[0] USBOH3_UH2_ DFD_OUT[0] MIPI_CORE_ DPHY_TEST_IN[12]	GPIO6[17]	Application UART 1 Transmit Data output signal
60	3V3	RXD	SD3_DAT6	USDHC3_DAT6 UART1_RXD_MUX PCIE_CTRL_DIAG_ STATUS_BUS_MUX[25] USBOH3_UH3_ DFD_OUT[1] USBOH3_UH2_ DFD_OUT[1] MIPI_CORE_ DPHY_TEST_IN[13]	GPIO6[18]	Application UART 1 Receive Data input signal
61	3V3	RTS	SD3_DAT1	USDHC3_DAT1 UART1_RTS CAN2_RXCAN USBOH3_UH3_ DFD_OUT[7] USBOH3_UH2_ DFD_OUT[7] MIPI_CORE_ DPHY_TEST_IN[19]	GPIO7[5]	Application UART 1 Request to Send input signal
62	3V3	CTS	SD3_DAT0	USDHC3_DAT0 UART1_CTS CAN2_TXCAN USBOH3_UH3_ DFD_OUT[6] USBOH3_UH2_ DFD_OUT[6] MIPI_CORE_ DPHY_TEST_IN[18]	GPIO7[4]	Application UART 1 Clear to Send output signal
2nd UART						
63	3V3	TXD	SD4_DAT7	RAWNAND_D15 USDHC4_DAT7 UART2_TXD_MUX USBOH3_UH2_ DFD_OUT[31] USBOH3_UH3_ DFD_OUT[31] IPU1_IPU_DIAG_BUS[15] IPU2_IPU_DIAG_BUS[15]	GPIO2[15]	Application UART 2 Transmit Data output signal
64	3V3	RXD	SD4_DAT4	RAWNAND_D12 USDHC4_DAT4 UART2_RXD_MUX USBOH3_UH2_ DFD_OUT[28] USBOH3_UH3_ DFD_OUT[28] IPU1_IPU_DIAG_BUS[12] IPU2_IPU_DIAG_BUS[12]	GPIO2[12]	Application UART 2 Receive Data input signal
65	3V3	RTS	SD4_DAT5	RAWNAND_D13 USDHC4_DAT5 UART2_RTS USBOH3_UH2_ DFD_OUT[29] USBOH3_UH3_ DFD_OUT[29] IPU1_IPU_DIAG_BUS[13] IPU2_IPU_DIAG_BUS[13]	GPIO2[13]	Application UART 2 Request to Send input signal
66	3V3	CTS	SD4_DAT6	RAWNAND_D14 USDHC4_DAT6 UART2_CTS USBOH3_UH2_ DFD_OUT[30] USBOH3_UH3_ DFD_OUT[30] IPU1_IPU_DIAG_BUS[14] IPU2_IPU_DIAG_BUS[14]	GPIO2[14]	Application UART 2 Clear to Send output signal

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
3rd UART						
67	3V3	TXD	EIM_D24	WEIM_D[24] ECSP14_SS2 UART3_TXD_MUX ECSP11_SS2 ECSP12_SS2 AUDMUX_AUD5_RXFS UART1_DTR	GPIO3[24]	Application UART 3 Transmit Data output signal
68	3V3	RXD	EIM_D25	WEIM_D[25] ECSP14_SS3 UART3_RXD_MUX ECSP11_SS3 ECSP12_SS3 AUDMUX_AUD5_RXC UART1_DSR	GPIO3[25]	Application UART 3 Receive Data input signal
69	3V3	RTS	SD3_RST	USDHC3_RST UART3_RTS PCIE_CTRL_DIAG_ STATUS_BUS_MUX[30] USBOH3_UH3_ DFD_OUT[10] USBOH3_UH2_ DFD_OUT[10] MIPI_CORE_ DPHY_TEST_IN[22]	GPIO7[8]	Application UART 3 Request to Send input signal
70	3V3	CTS	SD3_DAT3	USDHC3_DAT3 UART3_CTS PCIE_CTRL_DIAG_ STATUS_BUS_MUX[29] USBOH3_UH3_ DFD_OUT[9] USBOH3_UH2_ DFD_OUT[9] MIPI_CORE_ DPHY_TEST_IN[21]	GPIO7[7]	Application UART 3 Clear to Send output signal
71	GND	GND				
KEYPAD / 1st CAN						
72	3V3	KP_COL[0]	GPIO_9	ESAI1_FSR WDOG1_WDOG_B KPP_COL[6] CCM_REF_EN_B PWM1_PWMO USDHC1_WP SRC_EARLY_RST	GPIO1[9]	
73	3V3	KP_COL[1]	GPIO_4	ESAI1_HCKT OBSRV_INT_OUT3 KPP_COL[7] CCM_CCM_OUT_2 CSU_ALARM_AUT[1] USDHC2_CD OCOTP_CTRL_WRAPPER _FUSE_LATCHED	GPIO1[4]	
74	3V3	KP_COL[2]	KEY_COL2	ECSP11_SS1 ENET_RDATA[2] CAN1_TXCAN KPP_COL[2] ENET_MDC USBOH3_H1USB_ PWRCTL_WAKEUP MX6Q_PER1_HADDR[3]	GPIO4[10]	
75	3V3	KP_COL[3]	KEY_COL3	ECSP11_SS3 ENET_CRS HDMI_TX_DDC_SCL KPP_COL[3] I2C2_SCL SPDIF_IN1 MX6Q_PER1_HADDR[5]	GPIO4[12]	
76	3V3	TXCAN	KEY_COL4	CAN2_TXCAN IPU1_SIG[4] USBOH3_USBOTG_OC KPP_COL[4] UART5_RTS MMD5_DEBUG[49] MX6Q_PER1_HADDR[7]	GPIO4[14]	

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
77	3V3	KP_ROW[0]	GPIO_2	ESAI1_FST OBSRV_INT_OUT2 KPP_ROW[6] CCM_CCM_OUT_1 CSU_ALARM_AUT[0] USDHC2_WP MLB_MLBDAT	GPIO1[2]	
78	3V3	KP_ROW[1]	GPIO_5	ESAI1_TX2_RX3 OBSRV_INT_OUT4 KPP_ROW[7] CCM_CLKO CSU_ALARM_AUT[2] I2C3_SCL MPCORE_EVENTI	GPIO1[5]	
79	3V3	KP_ROW[2]	KEY_ROW2	ECSP11_SS2 ENET_TDATA[2] CAN1_RXCAN KPP_ROW[2] USDHC2_VSELECT HDMI_TX_CEC_LINE MX6Q_PER1_HADDR[4]	GPIO4[11]	
80	3V3	KP_ROW[3]	KEY_ROW3	OSC32K_32K_OUT ASRC_ASRC_EXT_CLK HDMI_TX_DDC_SDA KPP_ROW[3] I2C2_SDA USDHC1_VSELECT MX6Q_PER1_HADDR[6]	GPIO4[13]	
81	3V3	RXCAN	KEY_ROW4	CAN2_RXCAN IPU1_SISG[5] USBOH3_USBOTG_PWR KPP_ROW[4] UART5_CTS MMDC_DEBUG[50] MX6Q_PER1_HADDR[8]	GPIO4[15]	
82	GND	GND				

SSI 1 - Serial Audio Port 1

83	3V3	SSI1_INT	EIM_D26	WEIM_D[26] IPU1_DI1_PIN11 IPU1_CSI0_D[1] IPU2_CSI1_D[14] UART2_TXD_MUX IPU1_SISG[2] IPU1_DISP1_DAT[22]	GPIO3[26]	GPIO
84	3V3	SSI1_RXD	KEY_ROW1	ECSP11_SS0 ENET_COL AUDMUX_AUD5_RXD KPP_ROW[1] UART5_RXD_MUX USDHC2_VSELECT MX6Q_PER1_HADDR[2]	GPIO4[9]	Serial Audio Interface serial data line 1
85	3V3	SSI1_TXD	KEY_ROW0	ECSP11_MOSI ENET_TDATA[3] AUDMUX_AUD5_TXD KPP_ROW[0] UART4_RXD_MUX DCIC2_DCIC_OUT MX6Q_PER1_HADDR[0]	GPIO4[7]	Serial Audio Interface serial data line 0
86	3V3	SSI1_CLK	KEY_COL0	ECSP11_SCLK ENET_RDATA[3] AUDMUX_AUD5_TXC KPP_COL[0] UART4_TXD_MUX DCIC1_DCIC_OUT SRC_ANY_PU_RST	GPIO4[6]	Serial Audio Interface serial bit clock
87	3V3	SSI1_FS	KEY_COL1	ECSP11_MISO ENET_MDIO AUDMUX_AUD5_TXFS KPP_COL[1] UART5_TXD_MUX USDHC1_VSELECT MX6Q_PER1_HADDR[1]	GPIO4[8]	Serial Audio Interface left/right clock
88	GND	GND				

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
SSI 2 - Serial Audio Port 2						
89	3V3	SSI2_INT	EIM_D27	WEIM_D[27] IPU1_DI1_PIN13 IPU1_CSI0_D[0] IPU2_CSI1_D[13] UART2_RXD_MUX IPU1_SISG[3] IPU1_DISP1_DAT[23]	GPIO3[27]	GPIO
90	3V3	SSI2_RXD	CSI0_DAT7	IPU1_CSI0_D[7] WEIM_D[5] ECSPI1_SS0 KPP_ROW[6] AUDMUX_AUD3_RXD MMDC_DEBUG[46] MPCORE_TRACE[4]	GPIO5[25]	Serial Audio Interface serial data line 1
91	3V3	SSI2_TXD	CSI0_DAT5	IPU1_CSI0_D[5] WEIM_D[3] ECSPI1_MOSI KPP_ROW[5] AUDMUX_AUD3_TXD MMDC_DEBUG[44] MPCORE_TRACE[2]	GPIO5[23]	Serial Audio Interface serial data line 0
92	3V3	SSI2_CLK	CSI0_DAT4	IPU1_CSI0_D[4] WEIM_D[2] ECSPI1_SCLK KPP_COL[5] AUDMUX_AUD3_TXC MMDC_DEBUG[43] MPCORE_TRACE[1]	GPIO5[22]	Serial Audio Interface serial bit clock
93	3V3	SSI2_FS	CSI0_DAT6	IPU1_CSI0_D[6] WEIM_D[4] ECSPI1_MISO KPP_COL[6] AUDMUX_AUD3_TXFS MMDC_DEBUG[45] MPCORE_TRACE[3]	GPIO5[24]	Serial Audio Interface left/right clock
94	GND	GND				
Secure Digital Interface 2						
95	3V3	SD2_CD	SD3_CLK	USDHC3_CLK UART2_RTS CAN1_RXCAN USBOH3_UH3_ DFD_OUT[5] USBOH3_UH2_ DFD_OUT[5] MIPI_CORE_DPHY_ TEST_IN[17]	GPIO7[3]	SD Card Detect – connected to a GPIO
96	3V3	SD2_D[0]	SD2_DAT0	USDHC2_DAT0 ECSPI5_MISO AUDMUX_AUD4_RXD KPP_ROW[7] DCIC2_DCIC_OUT	GPIO1[15]	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.
97	3V3	SD2_D[1]	SD2_DAT1	USDHC2_DAT1 ECSPI5_SS0 WEIM_CS[2] AUDMUX_AUD4_TXFS KPP_COL[7] CCM_WAIT	GPIO1[14]	
98	3V3	SD2_D[2]	SD2_DAT2	USDHC2_DAT2 ECSPI5_SS1 WEIM_CS[3] AUDMUX_AUD4_TXD KPP_ROW[6] CCM_STOP	GPIO1[13]	
99	3V3	SD2_D[3]	SD2_DAT3	USDHC2_DAT3 ECSPI5_SS3 KPP_COL[6] AUDMUX_AUD4_TXC PCIE_CTRL_DIAG_ STATUS_BUS_MUX[11] SJC_DONE	GPIO1[12]	

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
100	3V3	SD2_CMD	SD2_CMD	USDHC2_CMD ECSPI5_MOSI KPP_ROW[5] AUDMUX_AUD4_RXC PCIE_CTRL_DIAG_STATU S_BUS_MUX[10]	GPIO1[11]	SD Command bidirectional signal
101	3V3	SD2_CLK	SD2_CLK	USDHC2_CLK ECSPI5_SCLK KPP_COL[5] AUDMUX_AUD4_RXFS PCIE_CTRL_DIAG_ STATUS_BUS_MUX[9] PHY_DTB[1] SATA_PHY_DTB[1]	GPIO1[10]	SD Output Clock.
102	GND	GND				
CMOS Sensor Interface						
103	3V3	CSI0_DAT12	CSI0_DAT12	IPU1_CSI0_D[12] WEIM_D[8] PCIE_CTRL_DIAG_ STATUS_BUS_MUX[16] UART4_TXD_MUX SDMA_DEBUG_PC[6] MMDC_DEBUG[35] MPCORE_TRACE[9]	GPIO5[30]	
104	3V3	CSI0_DAT13	CSI0_DAT13	IPU1_CSI0_D[13] WEIM_D[9] PCIE_CTRL_DIAG_ STATUS_BUS_MUX[17] UART4_RXD_MUX SDMA_DEBUG_PC[7] MMDC_DEBUG[36] MPCORE_TRACE[10]	GPIO5[31]	
105	3V3	CSI0_DAT14	CSI0_DAT14	IPU1_CSI0_D[14] WEIM_D[10] PCIE_CTRL_DIAG_ STATUS_BUS_MUX[18] UART5_TXD_MUX SDMA_DEBUG_PC[8] MMDC_DEBUG[37] MPCORE_TRACE[11]	GPIO6[0]	
106	3V3	CSI0_DAT15	CSI0_DAT15	IPU1_CSI0_D[15] WEIM_D[11] PCIE_CTRL_DIAG_ STATUS_BUS_MUX[19] UART5_RXD_MUX SDMA_DEBUG_PC[9] MMDC_DEBUG[38] MPCORE_TRACE[12]	GPIO6[1]	
107	3V3	CSI0_DAT16	CSI0_DAT16	IPU1_CSI0_D[16] WEIM_D[12] PCIE_CTRL_DIAG_ STATUS_BUS_MUX[20] UART4_RTS SDMA_DEBUG_PC[10] MMDC_DEBUG[39] MPCORE_TRACE[13]	GPIO6[2]	
108	3V3	CSI0_DAT17	CSI0_DAT17	IPU1_CSI0_D[17] WEIM_D[13] PCIE_CTRL_DIAG_ STATUS_BUS_MUX[21] UART4_CTS SDMA_DEBUG_PC[11] MMDC_DEBUG[40] MPCORE_TRACE[14]	GPIO6[3]	
109	3V3	CSI0_DAT18	CSI0_DAT18	IPU1_CSI0_D[18] WEIM_D[14] PCIE_CTRL_DIAG_ STATUS_BUS_MUX[22] UART5_RTS SDMA_DEBUG_PC[12] MMDC_DEBUG[41] MPCORE_TRACE[15]	GPIO6[4]	

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
110	3V3	CSI0_DAT19	CSI0_DAT19	IPU1_CSI0_D[19] WEIM_D[15] PCIE_CTRL_DIAG_ STATUS_BUS_MUX[23] UART5_CTS SDMA_DEBUG_PC[13] MMDC_DEBUG[42]	GPIO6[5]	
111	GND	GND				
112	3V3	CSI0_HSYNC	CSI0_MCLK	IPU1_CSI0_HSYNC PCIE_CTRL_DIAG_ STATUS_BUS_MUX[13] CCM_CLKO SDMA_DEBUG_PC[1] MMDC_DEBUG[30] MPCORE_TRCTL	GPIO5[19]	
113	3V3	CSI0_VSYNC	CSI0_VSYNC	IPU1_CSI0_VSYNC WEIM_D[1] PCIE_CTRL_DIAG_ STATUS_BUS_MUX[15] SDMA_DEBUG_PC[3] MMDC_DEBUG[32] MPCORE_TRACE[0]	GPIO5[21]	
114	3V3	CSI0_PIXCLK	CSI0_PIXCLK	IPU1_CSI0_PIXCLK PCIE_CTRL_DIAG_ STATUS_BUS_MUX[12] SDMA_DEBUG_PC[0] MMDC_DEBUG[29] MPCORE_EVENTO	GPIO5[18]	
115	3V3	CSI0_MCLK	GPIO_0	CCM_CLKO KPP_COL[5] EPIT1_EPITO USBOH3_USBH1_PWR SNVS_HP_WRAPPER_ SNVS_VIO_5	GPIO1[0]	
116	GND	GND				

LCD Controller and Smart LCD Controller

117	3V3	LD0	DISP0_DAT0	IPU1_DISP0_DAT[0] IPU2_DISP0_DAT[0] ECSPI3_SCLK USDHC1_USDHC_ DEBUG[0] SDMA_DEBUG_ CORE_RUN MMDC_DEBUG[5]	GPIO4[21]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS1_TX2_N	not available		TX6Q LVDS version: LVDS display output port 1
118	3V3	LD1	DISP0_DAT1	IPU1_DISP0_DAT[1] IPU2_DISP0_DAT[1] ECSPI3_MOSI USDHC1_USDHC_ DEBUG[1] SDMA_DEBUG_ EVENT_CHANNEL_SEL MMDC_DEBUG[6] MX6Q_PER1_HADDR[12]	GPIO4[22]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS1_TX1_N	not available		TX6Q LVDS version: LVDS display output port 1
119	3V3	LD2	DISP0_DAT2	IPU1_DISP0_DAT[2] IPU2_DISP0_DAT[2] ECSPI3_MISO USDHC1_USDHC_ DEBUG[2] SDMA_DEBUG_MODE MMDC_DEBUG[7] MX6Q_PER1_HADDR[13]	GPIO4[23]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS1_TX2_P	not available		TX6Q LVDS version: LVDS display output port 1
120	3V3	LD3	DISP0_DAT3	IPU1_DISP0_DAT[3] IPU2_DISP0_DAT[3] ECSPI3_SS0 USDHC1_USDHC_ DEBUG[3] SDMA_DEBUG_BUS_ERR MMDC_DEBUG[8] MX6Q_PER1_HADDR[14]	GPIO4[24]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS1_TX1_P	not available		TX6Q LVDS version: LVDS display output port 1

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
121	3V3	LD4	DISP0_DAT4	IPU1_DISP0_DAT[4] IPU2_DISP0_DAT[4] ECSP13_SS1 USDHC1_USDHC_DEBUG[4] SDMA_DEBUG_BUS_RWB MMDC_DEBUG[9] MX6Q_PER1_HADDR[15]	GPIO4[25]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS1_TX3_N	not available		TX6Q LVDS version: LVDS display output port 1
122	3V3	LD5	DISP0_DAT5	IPU1_DISP0_DAT[5] IPU2_DISP0_DAT[5] ECSP13_SS2 AUDMUX_AUD6_RXFS SDMA_DEBUG_MATCHED_DMBUS MMDC_DEBUG[10] MX6Q_PER1_HADDR[16]	GPIO4[26]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS1_TX0_N	not available		TX6Q LVDS version: LVDS display output port 1
123	3V3	LD6	DISP0_DAT6	IPU1_DISP0_DAT[6] IPU2_DISP0_DAT[6] ECSP13_SS3 AUDMUX_AUD6_RXC SDMA_DEBUG_RTBUFFER_WRITE MMDC_DEBUG[11] MX6Q_PER1_HADDR[17]	GPIO4[27]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS1_TX3_P	not available		TX6Q LVDS version: LVDS display output port 1
124	3V3	LD7	DISP0_DAT7	IPU1_DISP0_DAT[7] IPU2_DISP0_DAT[7] ECSP13_RDY USDHC1_USDHC_DEBUG[5] SDMA_DEBUG_EVENT_CHANNEL[0] MMDC_DEBUG[12] MX6Q_PER1_HADDR[18]	GPIO4[28]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS1_TX0_P	not available		TX6Q LVDS version: LVDS display output port 1
125	3V3	LD8	DISP0_DAT8	IPU1_DISP0_DAT[8] IPU2_DISP0_DAT[8] PWM1_PWM0 WDOG1_WDOG_B SDMA_DEBUG_EVENT_CHANNEL[1] MMDC_DEBUG[13] MX6Q_PER1_HADDR[19]	GPIO4[29]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS1_CLK_N	not available		TX6Q LVDS version: LVDS display output port 1
126	3V3	LD9	DISP0_DAT9	IPU1_DISP0_DAT[9] IPU2_DISP0_DAT[9] PWM2_PWM0 WDOG2_WDOG_B SDMA_DEBUG_EVENT_CHANNEL[2] MMDC_DEBUG[14] MX6Q_PER1_HADDR[20]	GPIO4[30]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS0_TX3_P	not available		TX6Q LVDS version: LVDS display output port 0
127	3V3	LD10	DISP0_DAT10	IPU1_DISP0_DAT[10] IPU2_DISP0_DAT[10] USDHC1_USDHC_DEBUG[6] SDMA_DEBUG_EVENT_CHANNEL[3] MMDC_DEBUG[15] MX6Q_PER1_HADDR[21]	GPIO4[31]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS1_CLK_P	not available		TX6Q LVDS version: LVDS display output port 1
128	3V3	LD11	DISP0_DAT11	IPU1_DISP0_DAT[11] IPU2_DISP0_DAT[11] USDHC1_USDHC_DEBUG[7] SDMA_DEBUG_EVENT_CHANNEL[4] MMDC_DEBUG[16] MX6Q_PER1_HADDR[22]	GPIO5[5]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS0_TX3_N	not available		TX6Q LVDS version: LVDS display output port 0

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
129	GND	GND				
130	3V3	LD12	DISP0_DAT12	IPU1_DISP0_DAT[12] IPU2_DISP0_DAT[12] SDMA_DEBUG_ EVENT_CHANNEL[5] MMDC_DEBUG[17] MX6Q_PER1_HADDR[23]	GPIO5[6]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS0_CLK_P	not available		TX6Q LVDS version: LVDS display output port 0
131	3V3	LD13	DISP0_DAT13	IPU1_DISP0_DAT[13] IPU2_DISP0_DAT[13] AUDMUX_AUD5_RXFS SDMA_DEBUG_ EVT_CHN_LINES[0] MMDC_DEBUG[18] MX6Q_PER1_HADDR[24]	GPIO5[7]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS0_TX2_P	not available		TX6Q LVDS version: LVDS display output port 0
132	3V3	LD14	DISP0_DAT14	IPU1_DISP0_DAT[14] IPU2_DISP0_DAT[14] AUDMUX_AUD5_RXC SDMA_DEBUG_ EVT_CHN_LINES[1] MMDC_DEBUG[19]	GPIO5[8]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS0_CLK_N	not available		TX6Q LVDS version: LVDS display output port 0
133	3V3	LD15	DISP0_DAT15	IPU1_DISP0_DAT[15] IPU2_DISP0_DAT[15] ECSP11_SS1 ECSP12_SS1 SDMA_DEBUG_ EVT_CHN_LINES[2] MMDC_DEBUG[20] MX6Q_PER1_HADDR[25]	GPIO5[9]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS0_TX2_N	not available		TX6Q LVDS version: LVDS display output port 0
134	3V3	LD16	DISP0_DAT16	IPU1_DISP0_DAT[16] IPU2_DISP0_DAT[16] ECSP12_MOSI AUDMUX_AUD5_TXC SDMA_EXT_EVENT[0] MMDC_DEBUG[21] MX6Q_PER1_HADDR[26]	GPIO5[10]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS0_TX1_P	not available		TX6Q LVDS version: LVDS display output port 0
135	3V3	LD17	DISP0_DAT17	IPU1_DISP0_DAT[17] IPU2_DISP0_DAT[17] ECSP12_MISO AUDMUX_AUD5_TXD SDMA_EXT_EVENT[1] MMDC_DEBUG[22] MX6Q_PER1_HADDR[27]	GPIO5[11]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS0_TX0_P	not available		TX6Q LVDS version: LVDS display output port 0
136	3V3	LD18	DISP0_DAT18	IPU1_DISP0_DAT[18] IPU2_DISP0_DAT[18] ECSP12_SS0 AUDMUX_AUD5_TXFS AUDMUX_AUD4_RXFS MMDC_DEBUG[23] WEIM_CS[2]	GPIO5[12]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS0_TX1_N	not available		TX6Q LVDS version: LVDS display output port 0
137	3V3	LD19	DISP0_DAT19	IPU1_DISP0_DAT[19] IPU2_DISP0_DAT[19] ECSP12_SCLK AUDMUX_AUD5_RXD AUDMUX_AUD4_RXC MMDC_DEBUG[24] WEIM_CS[3]	GPIO5[13]	TX6Q standard version: LCD Data Bus
	LVDS		LVDS0_TX0_N	not available		TX6Q LVDS version: LVDS display output port 0

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
138	3V3	LD20	DISP0_DAT20	IPU1_DISP0_DAT[20] IPU2_DISP0_DAT[20] ECSP11_SCLK AUDMUX_AUD4_TXC SDMA_DEBUG_ EVT_CHN_LINES[7] MMDC_DEBUG[25] MX6Q_PER1_HADDR[28]	GPIO5[14]	TX6Q standard version: LCD Data Bus
	SATA		SATA_RXM	not available		TX6Q LVDS version: SATA port
139	3V3	LD21	DISP0_DAT21	IPU1_DISP0_DAT[21] IPU2_DISP0_DAT[21] ECSP11_MOSI AUDMUX_AUD4_TXD SDMA_DEBUG_ BUS_DEVICE[0] MMDC_DEBUG[26] MX6Q_PER1_HADDR[29]	GPIO5[15]	TX6Q standard version: LCD Data Bus
	SATA		SATA_TXM	not available		TX6Q LVDS version: SATA port
140	3V3	LD22	DISP0_DAT22	IPU1_DISP0_DAT[22] IPU2_DISP0_DAT[22] ECSP11_MISO AUDMUX_AUD4_TXFS SDMA_DEBUG_ BUS_DEVICE[1] MMDC_DEBUG[27] MX6Q_PER1_HADDR[30]	GPIO5[16]	TX6Q standard version: LCD Data Bus
	SATA		SATA_RXP	not available		TX6Q LVDS version: SATA port
141	3V3	LD23	DISP0_DAT23	IPU1_DISP0_DAT[23] IPU2_DISP0_DAT[23] ECSP11_SS0 AUDMUX_AUD4_RXD SDMA_DEBUG_ BUS_DEVICE[2] MMDC_DEBUG[28] MX6Q_PER1_HADDR[31]	GPIO5[17]	TX6Q standard version: LCD Data Bus
	SATA		SATA_TXP	not available		TX6Q LVDS version: SATA port
142	GND	GND				
143	3V3	HSYNC	DIO_PIN2	IPU1_DIO_PIN2 IPU2_DIO_PIN2 AUDMUX_AUD6_TXD MIPI_CORE_ DPHY_TEST_OUT[30] SDMA_DEBUG_ CORE_STATE[2] MMDC_DEBUG[2] MX6Q_PER1_HADDR[9]	GPIO4[18]	
144	3V3	VSYNC	DIO_PIN3	IPU1_DIO_PIN3 IPU2_DIO_PIN3 AUDMUX_AUD6_TXFS MIPI_CORE_ DPHY_TEST_OUT[31] SDMA_DEBUG_ CORE_STATE[3] MMDC_DEBUG[3] MX6Q_PER1_HADDR[10]	GPIO4[19]	
145	3V3	OE_ACD	DIO_PIN15	IPU1_DIO_PIN15 IPU2_DIO_PIN15 AUDMUX_AUD6_TXC MIPI_CORE_ DPHY_TEST_OUT[29] SDMA_DEBUG_ CORE_STATE[1] MMDC_DEBUG[1]	GPIO4[17]	
146	3V3	LSCLK	DIO_DISP_CLK	IPU1_DIO_DISP_CLK IPU2_DIO_DISP_CLK MIPI_CORE_ DPHY_TEST_OUT[28] SDMA_DEBUG_ CORE_STATE[0] MMDC_DEBUG[0]	GPIO4[16]	
147	GND	GND				

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
Module Specific Signals						
148	3V3	CSI1_MCLK	NANDF_CS2	RAWNAND_CE2N IPU1_SISG[0] ESAI1_TX0 WEIM_CRE CCM_CLKO2 IPU2_SISG[0] WEIM_A[16]	GPIO6[15]	
149	3V3	CSI1_PIXCLK	EIM_A16	IPU1_DI1_DISP_CLK IPU2_CSI1_PIXCLK MIPI_CORE_ DPHY_TEST_OUT[23] TPSMP_HDATA[6] SRC_BT_CFG[16]	GPIO2[22]	
150	3V3	CSI1_VSYNC	EIM_D29	WEIM_D[29] IPU1_DI1_PIN15 ECSPI4_SS0 UART2_RTS IPU2_CSI1_VSYNC IPU1_DIO_PIN14	GPIO3[29]	
151	3V3	CSI1_HSYNC	EIM_EB3	WEIM_EB[3] ECSPI4_RDY UART3_RTS UART1_RI IPU2_CSI1_HSYNC IPU1_DI1_PIN3 SRC_BT_CFG[31]	GPIO2[31]	
152	3V3	CSI1_D[12]	EIM_A17	WEIM_A[17] IPU1_DISP1_DAT[12] IPU2_CSI1_D[12] MIPI_CORE_ DPHY_TEST_OUT[22] TPSMP_HDATA[5] SRC_BT_CFG[17]	GPIO2[21]	
153	3V3	CSI1_D[13]	EIM_A18	WEIM_A[18] IPU1_DISP1_DAT[13] IPU2_CSI1_D[13] MIPI_CORE_ DPHY_TEST_OUT[21] TPSMP_HDATA[4] SRC_BT_CFG[18]	GPIO2[20]	
154	3V3	CSI1_D[14]	EIM_A19	WEIM_A[19] IPU1_DISP1_DAT[14] IPU2_CSI1_D[14] MIPI_CORE_ DPHY_TEST_OUT[20] TPSMP_HDATA[3] SRC_BT_CFG[19]	GPIO2[19]	
155	3V3	CSI1_D[15]	EIM_A20	WEIM_A[20] IPU1_DISP1_DAT[15] IPU2_CSI1_D[15] MIPI_CORE_ DPHY_TEST_OUT[19] TPSMP_HDATA[2] SRC_BT_CFG[20]	GPIO2[18]	
156	3V3	CSI1_D[16]	EIM_A21	WEIM_A[21] IPU1_DISP1_DAT[16] IPU2_CSI1_D[16] MIPI_CORE_ DPHY_TEST_OUT[18] TPSMP_HDATA[1] SRC_BT_CFG[21]	GPIO2[17]	
157	3V3	CSI1_D[17]	EIM_A22	WEIM_A[22] IPU1_DISP1_DAT[17] IPU2_CSI1_D[17] TPSMP_HDATA[0] SRC_BT_CFG[22]	GPIO2[16]	
158	3V3	CSI1_D[18]	EIM_A23	WEIM_A[23] IPU1_DISP1_DAT[18] IPU2_CSI1_D[18] IPU2_SISG[3] IPU1_SISG[3] MX6Q_PER1_HPROT[3] SRC_BT_CFG[23]	GPIO6[6]	

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
159	3V3	CSI1_D[19]	EIM_A24	WEIM_A[24] IPU1_DISP1_DAT[19] IPU2_CSI1_D[19] IPU2_SISG[2] IPU1_SISG[2] MX6Q_PER1_HPROT[2] SRC_BT_CFG[24]	GPIO5[4]	
160	GND	GND				
161	3V3		CSI0_DAT8	IPU1_CSI0_D[8] WEIM_D[6] ECSPI2_SCLK KPP_COL[7] I2C1_SDA MMD_C_DEBUG[47] MPCORE_TRACE[5]	GPIO5[26]	
162	3V3		CSI0_DAT9	IPU1_CSI0_D[9] WEIM_D[7] ECSPI2_MOSI KPP_ROW[7] I2C1_SCL MMD_C_DEBUG[48] MPCORE_TRACE[6]	GPIO5[27]	
163	3V3		CSI0_DAT10	IPU1_CSI0_D[10] AUDMUX_AUD3_RXC ECSPI2_MISO UART1_TXD_MUX SDMA_DEBUG_PC[4] MMD_C_DEBUG[33] MPCORE_TRACE[7]	GPIO5[28]	
164	3V3		CSI0_DAT11	IPU1_CSI0_D[11] AUDMUX_AUD3_RXFS ECSPI2_SS0 UART1_RXD_MUX SDMA_DEBUG_PC[5] MMD_C_DEBUG[34] MPCORE_TRACE[8]	GPIO5[29]	
165	3V3		EIM_D22	WEIM_D[22] ECSPI4_MISO IPU1_DI0_PIN1 IPU2_CSI1_D[10] USBOTG3_USBOTG_PWR SPDIF_OUT1 MX6Q_PER_HWRITE	GPIO3[22]	
166	LVDS		CLK1_N			Alternate reference clock for PCIe
			CSI_CLK0M			MIPI version only! MIPI_CSI - MIPI Camera Serial Interface CLK0
167	LVDS		PCIE_RXM			
			CSI_D1M			MIPI version only! MIPI_CSI - MIPI Camera Serial Interface DATA1
168	LVDS		CLK1_P			Alternate reference clock for PCIe
			CSI_CLK0P			MIPI version only! MIPI_CSI - MIPI Camera Serial Interface CLK0
169	LVDS		PCIE_RXP			
			CSI_D1P			MIPI version only! MIPI_CSI - MIPI Camera Serial Interface DATA1
170	LVDS		PCIE_TXM			
			CSI_D0M			MIPI version only! MIPI_CSI - MIPI Camera Serial Interface DATA0
171	GND	GND				
172	LVDS		PCIE_TXP			
			CSI_D0P			MIPI version only! MIPI_CSI - MIPI Camera Serial Interface DATA0
173	3V3	EIM_CS0	EIM_CS0	WEIM_CS[0] IPU1_DI1_PIN5 ECSPI2_SCLK MIPI_CORE_ DPHY_TEST_OUT[24] TPSMP_HDATA[7]	GPIO2[23]	
174	3V3	EIM_CS1	EIM_CS1	WEIM_CS[1] IPU1_DI1_PIN6 ECSPI2_MOSI MIPI_CORE_ DPHY_TEST_OUT[25] TPSMP_HDATA[8]	GPIO2[24]	

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
175	3V3	GPIO	CSIO_DATA_EN	IPU1_CSIO_DATA_EN WEIM_D[0] PCIE_CTRL_DIAG_ STATUS_BUS_MUX[14] SDMA_DEBUG_PC[2] MMDC_DEBUG[31] MPCORE_TRCLK	GPIO5[20]	
176	3V3	EIM_WAIT	EIM_WAIT	WEIM_WAIT WEIM_DTACK_B TPSMP_HDATA[30] SRC_BT_CFG[25]	GPIO5[0]	
177	3V3	EIM_EB0	EIM_EB0	WEIM_EB[0] IPU1_DISP1_DAT[11] IPU2_CSI1_D[11] MIPI_CORE_ DPHY_TEST_OUT[0] CCM_PMIC_RDY TPSMP_HDATA[12] SRC_BT_CFG[27]	GPIO2[28]	
178	3V3	EIM_EB1	EIM_EB1	WEIM_EB[1] IPU1_DISP1_DAT[10] IPU2_CSI1_D[10] MIPI_CORE_ DPHY_TEST_OUT[1] TPSMP_HDATA[13] SRC_BT_CFG[28]	GPIO2[29]	
179	3V3	EIM_OE	EIM_OE	WEIM_OE IPU1_DI1_PIN7 ECSP12_MISO MIPI_CORE_ DPHY_TEST_OUT[26] TPSMP_HDATA[9]	GPIO2[25]	
180	3V3	EIM_LBA	EIM_LBA	WEIM_LBA IPU1_DI1_PIN17 ECSP12_SS1 TPSMP_HDATA[11] SRC_BT_CFG[26]	GPIO2[27]	
181	3V3	EIM_RW	EIM_RW	WEIM_RW IPU1_DI1_PIN8 ECSP12_SS0 MIPI_CORE_ DPHY_TEST_OUT[27] TPSMP_HDATA[10] SRC_BT_CFG[29]	GPIO2[26]	
182	3V3	EIM_BCLK	EIM_BCLK	WEIM_BCLK IPU1_DI1_PIN16 GPIO6_GPIO[31] TPSMP_HDATA[31]	GPIO6[31]	
	POWER		NVCC_RGMII NVCC_ENET	1V8 power supply output RN5T618 LOD4 max.:180mA		TX6Q-1020
183	GND	GND				
184	3V3	EIM_DA0	EIM_DA0	WEIM_DA_A[0] IPU1_DISP1_DAT[9] IPU2_CSI1_D[9] MIPI_CORE_ DPHY_TEST_OUT[2] TPSMP_HDATA[14] SRC_BT_CFG[0]	GPIO3[0]	
	1V8	ENET_REF_CLK	ENET_REF_CLK	ENET_TX_CLK ESAI_RX_FS SPDIF_SR_CLK	GPIO1[23]	TX6Q-1020
185	3V3	EIM_DA1	EIM_DA1	WEIM_DA_A[1] IPU1_DISP1_DAT[8] IPU2_CSI1_D[8] MIPI_CORE_ DPHY_TEST_OUT[3] TPSMP_HDATA[15] SRC_BT_CFG[1]	GPIO3[1]	
	1V8	ENET0_MDC	ENET0_MDC	Fixed function		TX6Q-1020

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
186	3V3	EIM_DA2	EIM_DA2	WEIM_DA_A[2] IPU1_DISP1_DAT[7] IPU2_CSI1_D[7] MIPI_CORE_ DPHY_TEST_OUT[4] TPSMP_HDATA[16] SRC_BT_CFG[2]	GPIO3[2]	
	1V8	ENET0_MDIO	ENET0_MDIO	Fixed function		TX6Q-1020
187	3V3	EIM_DA3	EIM_DA3	WEIM_DA_A[3] IPU1_DISP1_DAT[6] IPU2_CSI1_D[6] MIPI_CORE_ DPHY_TEST_OUT[5] TPSMP_HDATA[17] SRC_BT_CFG[3]	GPIO3[3]	
	POWER			1V2 power supply output RN5T618 LOD5 max.:200mA		TX6Q-1020
188	3V3	EIM_DA4	EIM_DA4	WEIM_DA_A[4] IPU1_DISP1_DAT[5] IPU2_CSI1_D[5] MIPI_CORE_ DPHY_TEST_OUT[6] TPSMP_HDATA[18] SRC_BT_CFG[4]	GPIO3[4]	
	1V8	RGMII_RXC	RGMII_RXC	USB_H3_STROBE	GPIO6[30]	TX6Q-1020
189	3V3	EIM_DA5	EIM_DA5	WEIM_DA_A[5] IPU1_DISP1_DAT[4] IPU2_CSI1_D[4] MIPI_CORE_ DPHY_TEST_OUT[7] TPSMP_HDATA[19] SRC_BT_CFG[5]	GPIO3[5]	
	1V8	RGMII_RD3	RGMII_RD3	HSI_TX_WAKE	GPIO6[29]	TX6Q-1020
190	3V3	EIM_DA6	EIM_DA6	WEIM_DA_A[6] IPU1_DISP1_DAT[3] IPU2_CSI1_D[3] MIPI_CORE_ DPHY_TEST_OUT[8] TPSMP_HDATA[20] SRC_BT_CFG[6]	GPIO3[6]	
	1V8	RGMII_RD2	RGMII_RD2	HSI_TX_DATA	GPIO6[28]	TX6Q-1020
191	3V3	EIM_DA7	EIM_DA7	WEIM_DA_A[7] IPU1_DISP1_DAT[2] IPU2_CSI1_D[2] MIPI_CORE_ DPHY_TEST_OUT[9] TPSMP_HDATA[21] SRC_BT_CFG[7]	GPIO3[7]	
	1V8	RGMII_RD1	RGMII_RD1	HSI_TX_FLAG	GPIO6[27]	TX6Q-1020
192	3V3	EIM_DA8	EIM_DA8	WEIM_DA_A[8] IPU1_DISP1_DAT[1] IPU2_CSI1_D[1] MIPI_CORE_ DPHY_TEST_OUT[10] TPSMP_HDATA[22] SRC_BT_CFG[8]	GPIO3[8]	
	1V8	RGMII_RD0	RGMII_RD0	HSI_RX_READY	GPIO6[25]	TX6Q-1020

PIN	Type	Function	i.MX6 Quad Pad Name	Alternate functions	GPIO	Description (refer to i.MX6 Dual manuals for details)
193	3V3	EIM_DA9	EIM_DA9	WEIM_DA_A[9] IPU1_DISP1_DAT[0] IPU2_CSI1_D[0] MIPI_CORE_ DPHY_TEST_OUT[11] TPSMP_HDATA[23] SRC_BT_CFG[9]	GPIO3[9]	
	1V8	RGMII_RX_CTL	RGMII_RX_CTL	USB_H3_DATA	GPIO6[24]	TX6Q-1020
194	3V3	EIM_DA10	EIM_DA10	WEIM_DA_A[10] IPU1_DI1_PIN15 IPU2_CSI1_DATA_EN MIPI_CORE_ DPHY_TEST_OUT[12] TPSMP_HDATA[24] SRC_BT_CFG[10]	GPIO3[10]	
	1V8	RGMII_TD3	RGMII_TD3	HSI_RX_WAKE	GPIO6[23]	TX6Q-1020
195	3V3	EIM_DA11	EIM_DA11	WEIM_DA_A[11] IPU1_DI1_PIN2 IPU2_CSI1_HSYNC MIPI_CORE_ DPHY_TEST_OUT[13] SDMA_DEBUG_ EVT_CHN_LINES[6] TPSMP_HDATA[25] SRC_BT_CFG[11]	GPIO3[11]	
	1V8	RGMII_TD2	RGMII_TD2	HSI_RX_DATA	GPIO6[22]	TX6Q-1020
196	3V3	EIM_DA12	EIM_DA12	WEIM_DA_A[12] IPU1_DI1_PIN3 IPU2_CSI1_VSYNC MIPI_CORE_ DPHY_TEST_OUT[14] SDMA_DEBUG_ EVT_CHN_LINES[3] TPSMP_HDATA[26] SRC_BT_CFG[12]	GPIO3[12]	
	1V8	RGMII_TD1	RGMII_TD1	HSI_RX_FLAG	GPIO6[21]	TX6Q-1020
197	3V3	EIM_DA13	EIM_DA13	WEIM_DA_A[13] IPU1_DI1_D0_CS CCM_DI1_EXT_CLK MIPI_CORE_ DPHY_TEST_OUT[15] SDMA_DEBUG_ EVT_CHN_LINES[4] TPSMP_HDATA[27] SRC_BT_CFG[13]	GPIO3[13]	
	1V8	RGMII_TD0	RGMII_TD0	HSI_TX_READY	GPIO6[20]	TX6Q-1020
198	3V3	EIM_DA14	EIM_DA14	WEIM_DA_A[14] IPU1_DI1_D1_CS CCM_DI0_EXT_CLK MIPI_CORE_ DPHY_TEST_OUT[16] SDMA_DEBUG_ EVT_CHN_LINES[5] TPSMP_HDATA[28] SRC_BT_CFG[14]	GPIO3[14]	
	1V8	RGMII_TX_CTL	RGMII_TX_CTL	USB_H2_STROBE ENET_REF_CLK	GPIO6[26]	TX6Q-1020
199	3V3	EIM_DA15	EIM_DA15	WEIM_DA_A[15] IPU1_DI1_PIN1 IPU1_DI1_PIN4 MIPI_CORE_ DPHY_TEST_OUT[17] TPSMP_HDATA[29] SRC_BT_CFG[15]	GPIO3[15]	
	1V8	RGMII_TXC	RGMII_TXC	USB_H2_DATA SPDIF_EXT_CLK XTALOSC_REF_CLK_24M	GPIO6[19]	TX6Q-1020
200	GND	GND				



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

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- 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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