

Computer On Module

- Processor NXP i.MX257, 400 MHz
- RAM 64 MB SDRAM
- ROM 128MB NAND Flash
- Power supply Single 3.1V to 5.5V
- Size 26mm SO-DIMM
- Temp.-Range -40°C..85°C

Key Features

- 10/100Mbps Ethernet
- High-Speed USB 2.0 OTG
- Full-Speed USB 2.0 Host
- LCD controller
- Still-picture camera interface
- Several peripheral interfaces:
 - UART, SD-CARD, I2C, PWM, 1-wire,
 - Keypad, Digital Audio (AC97/I2S),
 - Configurable serial peripheral interface,
 - 4/5 wire Touchscreen, CAN

OS Support

- Windows Embedded CE
- Linux



**454 MHz
ARM9**



Board highlights:

- Lowest cost 400MHz ARM9
- Industrial temperature range
- Standard TX-DIMM pinout
- as small as possible - only 26mm

The TX25 is a member of a module series, specially designed for NXP Semiconductors' i.MX25 multimedia processors. TX modules are complete computers, implemented on a board smaller than a credit card, and ready to be designed into your embedded system. TX modules includes a NXP i.MX processor, SDRAM and Flash memory. The integrated LCD-controller enables direct connection of an LCD screen. The TX25 is specifically targeted at embedded applications where size, high cpu-performance and cost are critical factors.

Computer on module

- NXP i.MX257, 400 MHz
- 64 MByte SDRAM (16bit)
- 128 MByte NAND Flash memory
- DIMM200-module (67,6mm x 26 mm x 3,6mm)
- Operating temperature range -40..85°C

Processor

The i.MX257 processor introduces several key new features such as 3.3V I/O support, three general-purpose 12-bit ADCs, a touch screen controller and integrated 128K SRAM to improve system performance or low-power LCD refresh.

Standard TX-DIMM pinout:

- 4-wire UARTs (x3)
- LCD
- CSI (CMOS Sensor Interface)
- I2C / 1-wire / PWM
- SSI/AC97/I2S (x2)
- 4-wire SD-Card/SDIO
- Keypad 4x4
- CSPI (Configurable serial peripheral interface)

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
- 12 Mbps USB Host

Additional interfaces like CAN, 4/5-wire resistive touch-screen, 2 UARTs and external memory interface are available on TX25 specific pins. Some interfaces are multiplexed with other functions.

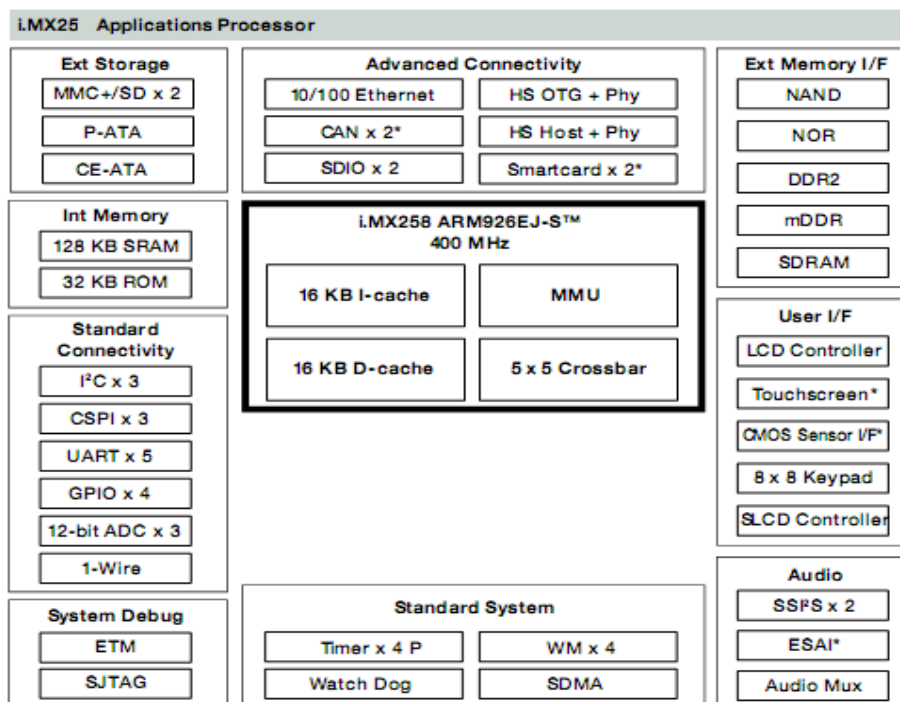
Power Supply

The TX25 accepts an input voltage from various sources:

- 1-cell Li-Ion/Polymer (3.1V 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



Ordering Information

Order Number	CPU	SDRAM	Flash	Temp.
TX25/400/64S/128F/I	400MHz i.MX257	64MB	128MB	-40°C..85°C

PINOUT			Marked yellow: Not connected			
PIN	Type	Function	i.MX25 Pad Name	Alternate functions	GPIO	Description (refer to I.MX25 manuals for details)
POWER SUPPLY & RESET						
1-4	power	VIN				Module power supply input (3.0V-5.5V)
5-7, 9-12	power	VOUT				3.3V power supply output (up to 0.2A)
8	3V3	BOOTMODE			10K-PU	Boot mode select H: Boot from NAND / L: Boot from UART/USB
13	power		BAT_VDD			DRYICE backup power supply input (max. 1.55V)
14	NC					not connected
15	3V3		VSTBY_ACK	HRESET_B SS3 EPITO	GPIO3[18]	"Pulse" indication on finish of internal system reset, by visibility of "hreset_b" signal. After reset, this pin can be used for other purposes.
16	3V3	#POR				Power On Reset - active low input signal. Typically a push button reset. Pull low to force a reset. Leave unconnected or connect to 3V3 if unused. 63.5kΩ pull-up resistor.
17	3V3	RESET_IN_B	RESET_IN_B			Master Reset - external active low Schmitt trigger input signal. When this signal goes active, all modules (except the reset module, SDRAMC module, and the clock control module) are reset.
18	GND	GND				
Ethernet						
19	analog	ETN_TXN				Transmit Data Negative: 100Base-TX or 10Base-T differential transmit output to magnetics.
20	3V3	#ETN_LINKLED				Active low LINK ON indication: Active indicates that the link is on.
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_ACTLED				Active low ACTIVITY indication: Active indicates that there is Carrier sense (CRS) from the active PMD.
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	D9	LCDC_LD[22] USBH2_PWR	GPIO4[11]	Active high external 5V supply enable. This pin is used to enable the external VBUS power supply.
28	3V3	#USBH_OC	D8	LCDC_LD[23] USBH2_OC	GPIO4[12] 10K-PU	Active low over-current indicator input connected to a GPIO. This signal can be used as an input only. 10kΩ pull-up resistor.
29	analog	USBH_DM	USBPHY2_DM			D- pin of the USB cable
30	NC					not connected
31	analog	USBH_DP	USBPHY2_DP			D+ pin of the USB cable
32	GND	GND				
USB-OTG						
33	3V3	USBOTG_ID	USBPHY1_UID			ID pin of the USB cable. For an A-Device ID is grounded. For a B-Device ID is floated.
34	3V3	USBOTG_VBUSEN	GPIO_A	USBOTG_PWR ROW[4] / SCL TXCAN / PWM0 INT_MUX_OUT	GPIO1[0]	Active high external 5V supply enable. This pin is used to enable the external VBUS power supply.
35	analog	USBOTG_DM	USBPHY1_DP			D- pin of the USB cable
36	3V3	#USBOTG_OC	GPIO_B	USBOTG_OC ROW[5] / SDA RXCAN / PWM0	GPIO1[1] 10K-PU	Active low over-current indicator input connected to a GPIO. 10kΩ pull-up resistor.
37	analog	USBOTG_DP	USBPHY1_DP			D+ pin of the USB cable
38	analog	USBOTG_VBUS	USBPHY1_VBUS			VBUS pin of the USB cable. This pin is used for the VBUS comparator inputs.
39	GND	GND	-			
I2C						
40	3V3	I2C_DATA	I2C1_DAT	SLCDC_DATA[7]	GPIO1[13]	I2C Data

PIN	Type	Function	i.MX25 Pad Name	Alternate functions	GPIO	Description (refer to I.MX25 manuals for details)
41	3V3	I2C_CLK	I2C1_CLK	SLCDC_DATA[6]	GPIO1[12]	I2C Clock
PWM						
42	3V3	PWM	PWM	PWMO CMPOUT1 USBH2_OC BT_LPB_FREQ[2]	GPIO1[26] 47K-PU	PWM Output
1-WIRE						
43	3V3	OWDAT	RTCK	LINE DAT7 SDMA_DBG_PC_13	GPIO3[14]	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_SS0	CSPI1_SS0	LCDC_LD[16] PWMO SDMA_DBG_EVT_2 SLCDC_CS TRACE[6]	GPIO1[16]	Slave Select (Selectable polarity) signal
45	3V3	CSPI_SS1	CSPI1_SS1	SDA / UART3_RTS SDMA_DBG_EVT_3 SLCDC_RS TRACE[7]	GPIO1[17]	Slave Select (Selectable polarity) signal
46	3V3	CSPI_MOSI	CSPI1_MOSI	UART3_RXD_MUX SDMA_DBG_EVT_0 SLCDC_DATA[12] TRACE[4]	GPIO1[14]	Master Out/Slave In signal
47	3V3	CSPI_MISO	CSPI1_MISO	UART3_TXD_MUX SDMA_DBG_EVT_1 SLCDC_DATA[13] TRACE[5]	GPIO1[15]	Master In/Slave Out signal
48	3V3	CSPI_SCLK	CSPI1_SCLK	UART3_CTS SDMA_DBG_EVT_4 SLCDC_DATA[14] TRACE[8]	GPIO1[18]	Serial Clock signal
49	3V3	CSPI_RDY	CSPI1_RDY	SDMA_DBG_EVT_5 SLCDC_DATA[15] TRACE[9]	GPIO2[22]	Serial Data Ready signal
50	GND	GND				
SD – Secure Digital Interface 1						
51	3V3	SD1_CD	BCLK	EIM_BCLK	GPIO4[4]	SD Card Detect – connected to a GPIO
52	3V3	SD1_D[0]	SD1_DATA0	SCLK / TDATA[2] AUD7_TXFS SDMA_DBG_STAT_1 SLCDC_DATA[2] TRACE[12]	GPIO2[25]	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	RDY / TDATA[3] AUD7_RXD SDMA_DBG_STAT_2 SLCDC_DATA[3] TRACE[13]	GPIO2[26]	
54	3V3	SD1_D[2]	SD1_DATA2	SS0 / RX_CLK AUD7_RXC SDMA_DBG_STAT_3 SLCDC_DATA[4] TRACE[14]	GPIO2[27]	
55	3V3	SD1_D[3]	SD1_DATA3	SS1 / CRS AUD7_RXFS SLCDC_DATA[5] TRACE[15]	GPIO2[28]	
56	3V3	SD1_CMD	SD1_CMD	MOSI / RDATA[2] SDMA_DBG_EVT_SEL SLCDC_DATA[0] TRACE[10]	GPIO2[23]	SD Command bidirectional signal
57	3V3	SD1_CLK	SD1_CLK	MISO / RDATA[3] SDMA_DBG_STAT_0 SLCDC_DATA[1] TRACE[11]	GPIO2[24]	SD Output Clock.
58	GND	GND				
1st UART						
59	3V3	UART1_TXD	UART1_TXD	UART2_DSR LCDC_SPL SLCDC_DATA[9]	GPIO4[23]	Transmit Data output signal

PIN	Type	Function	i.MX25 Pad Name	Alternate functions	GPIO	Description (refer to I.MX25 manuals for details)
60	3V3	UART1_RXD	UART1_RXD	UART2_DTR LCDC_CLS SLCDC_DATA[8]	GPIO4[22]	Receive Data input signal
61	3V3	UART1_RTS	UART1_RTS	CSI_D[0] / CAPIN1 DCD_2 / LCDC_PS SLCDC_DATA[10]	GPIO4[24]	Request to Send input signal
62	3V3	UART1_CTS	UART1_CTS	CSI_D[1] / CMPOUT1 RI_2 / LCDC_REV SLCDC_DATA[11]	GPIO4[25]	Clear to Send output signal
2nd UART						
63	3V3	UART2_TXD	UART2_TXD	UART2_TXD_MUX DAT6 / TX_ERR EXTDMA_0	GPIO4[27]	Transmit Data output signal
64	3V3	UART2_RXD	UART2_RXD	UART2_RXD_MUX DAT7	GPIO4[26]	Receive Data input signal
65	3V3	UART2_RTS	UART2_RTS	DAT5 / COL / CAPIN1 EPITO / SS3 / EXTDMA_1	GPIO4[28]	Request to Send input signal
66	3V3	UART2_CTS	UART2_CTS	DAT4 / RX_ERR CMPOUT1 / SS3 EXTDMA_2	GPIO4[29]	Clear to Send output signal
3rd UART						
67	3V3	UART5_TXD	ECB	EIM_ECB UART5_TXD_MUX SCLK	GPIO3[23]	Transmit Data output signal
68	3V3	UART5_RXD	LBA	EIM_LBA UART5_RXD_MUX RDY	GPIO3[24]	Receive Data input signal
69	3V3	UART5_RTS	CS5	EIM_CS5 NANDF_CE2 DTACK_B / RTS_5 AUD4_RXFS MISO / TRCLK	GPIO3[21]	Request to Send input signal
70	3V3	UART5_CTS	CS4	EIM_CS4 NANDF_CE1 CTS_5 / AUD4_RXC MOSI / TRSYNC	GPIO3[20]	Clear to Send output signal
71	GND	GND				
KEYPAD						
72	3V3	KP_COL[0]	KPP_COLO	UART4_RXD_MUX AUD5_TXD SDMA_DBG_PC_4	GPIO3[1]	Keypad Column selection signals.
73	3V3	KP_COL[1]	KPP_COL1	UART4_TXD_MUX AUD5_RXD SDMA_DBG_PC_5	GPIO3[2]	
74	3V3	KP_COL[2]	KPP_COL2	RTS_4 / AUD5_TXC SDMA_DBG_PC_6 M3IF_CHOSEN_1 MASTER_1	GPIO3[3]	
75	3V3	KP_COL[3]	KPP_COL3	CTS_4 / AUD5_TXFS SDMA_DBG_PC_7 M3IF_CHOSEN_2 MASTER_2	GPIO3[4]	
76	3V3	TXCAN	GPIO_C	PWMO / SCL CAPIN1 / SS2 TXCAN	GPIO1[2]	Module specific function
77	3V3	KP_ROW[0]	KPP_ROW0	UART3_RXD / DTR_1 SDMA_DBG_PC_0	GPIO2[29]	Keypad Row selection signals.
78	3V3	KP_ROW[1]	KPP_ROW1	UART3_TXD / DSR_1 SDMA_DBG_PC_1	GPIO2[30]	
79	3V3	KP_ROW[2]	KPP_ROW2	RTS_3 / AUD5_RXC CSI_D[0] / DCD_1 SDMA_DBG_PC_2	GPIO2[31]	
80	3V3	KP_ROW[3]	KPP_ROW3	CTS_3 / AUD5_RXFS CSI_D[1] / RI_1 SDMA_DBG_PC_3	GPIO3[0]	
81	3V3	RXCAN	GPIO_D	WDOG_B / SDA COL[5] / CMPOUT1 RXCAN / SS2	GPIO1[3]	Module specific function
82	GND	GND				
SSI 1 - Serial Audio Port 1 (Configurable to I2S Protocol and AC97)						
83	3V3	SSI1_INT	EXT_ARMCLK		GPIO3 [15]	GPIO
84	3V3	SSI1_RXD	EB1	EIM_EB1_B AUD4_RXD / SS1	GPIO2[13]	Receive serial data

PIN	Type	Function	i.MX25 Pad Name	Alternate functions	GPIO	Description (refer to I.MX25 manuals for details)
85	3V3	SSI1_TXD	EB0	EIM_EB0_B AUD4_TXD / SS0	GPIO2[12]	Transmit serial data
86	3V3	SSI1_CLK	OE	EIM_OE AUD4_TXC	GPIO2[14]	Serial clock
87	3V3	SSI1_FS	RW	EIM_RW AUD4_TXFS	GPIO3[25]	Frame Sync
88	GND	GND				

SSI 2 - Serial Audio Port 2 (Configurable to I2S Protocol and AC97)

89	3V3	SSI2_INT	UPLL_BYPCCLK		GPIO3 [16]	GPIO
90	3V3	SSI2_RXD	POWER_FAIL	POWER_FAIL_INT AUD7_RXD / CTS_4	GPIO3[19]	Receive serial data
91	3V3	SSI2_TXD	GPIO_E	SCL / LCDC_LD[16] AUD7_TXD UART4_RXD_MUX CTI_TRIG_IN0_6	GPIO1[4]	Transmit serial data
92	3V3	SSI2_CLK	GPIO_F	LCDC_LD[17] EPITO / AUD7_TXC UART4_TXD_MUX CTI_TRIG_OUT0_6	GPIO1[5]	Serial clock
93	3V3	SSI2_FS	VSTBY_REQ	AUD7_TXFS UART4_RTS	GPIO3[17]	Frame Sync
94	GND	GND				

Secure Digital Interface 2

95	NC					not connected
96	NC					not connected
97	NC					not connected
98	NC					not connected
99	NC					not connected
100	NC					not connected
101	NC					not connected
102	GND	GND				

CMOS Sensor Interface

103	3V3	CSI_D0	CSI_D2	UART5_RXD / DAT4 SCKR / CLK0 / MOSI USBOTG_DATA[0]	GPIO1[27]	Sensor port data
104	3V3	CSI_D1	CSI_D3	UART5_TXD / DAT5 FSR / RST0 / MISO USBOTG_DATA[1]	GPIO1[28]	Sensor port data
105	3V3	CSI_D2	CSI_D4	RTS_5 / DAT6 / HCKR VEN0 / SCLK USBOTG_DATA[2]	GPIO1[29]	Sensor port data
106	3V3	CSI_D3	CSI_D5	CTS_5 / DAT7 / SCKT TX0 / RDY USBOTG_DATA[3]	GPIO1[30]	Sensor port data
107	3V3	CSI_D4	CSI_D6	ROW[6] / CMD / FST PD0 / SS0 USBOTG_DATA[4]	GPIO1[31]	Sensor port data
108	3V3	CSI_D5	CSI_D7	ROW[7] / CLK / HCKT RX0 / SS1 USBOTG_DATA[5]	GPIO1[6]	Sensor port data
109	3V3	CSI_D6	CSI_D8	COL[6] / AUD6_RXC TX5_RX0 / CLK0/ SS2 USBOTG_DATA[6]	GPIO1[7]	Sensor port data
110	3V3	CSI_D7	CSI_D9	COL[7] / AUD6_RXFS TX4_RX1 / RST0/ SS3 USBOTG_DATA[7]	GPIO4[21]	Sensor port data
111	GND	GND				
112	3V3	CSI_HSYNC	CSI_HSYNC	AUD6_TXC / DAT2 TX1 / PD0 BT_RES[2] USBOTG_NXT	GPIO1[10]	Sensor port horizontal sync
113	3V3	CSI_VSYNC	CSI_VSYNC	AUD6_RXD / DAT1 TX2_RX3 / TX0 USBOTG_STP BT_RES[1]	GPIO1[9]	Sensor port vertical sync

PIN	Type	Function	i.MX25 Pad Name	Alternate functions	GPIO	Description (refer to I.MX25 manuals for details)
114	3V3	CSI_PIXCLK	CSI_PIXCLK	AUD6_TXFS DAT3 / TX0 / RX0 USBOTG_CLK BT_RES[3]	GPIO1[11]	Sensor port data latch clock
115	3V3	CSI_MCLK	CSI_MCLK	AUD6_TXD / DAT0 TX3_RX2 / VEN0 USBOTG_DIR BT_RES[0]	GPIO1[8]	Sensor port master clock
116	GND	GND				
LCD Controller and Smart LCD Controller						
117	3V3	GPIO	CLKO		GPIO2[21]	Clock out pin from CRM, clock source is controlable and can also be used for debug.
118	3V3	CONTRAST	CONTRAST	CAPIN1 / SS1 / DA_2 PWMO / CRS USBH2_PWR WDOG_B		
119	3V3	LD0	LD0	SLCDC_DATA[0] CSI_D[0] / DATA[0] CLK1 / USBH2_CLK BT_MEM_CTRL[0]	GPIO2[15] 47K-PU	LCD Data Bus
120	3V3	LD1	LD1	SLCDC_DATA[1] CSI_D[1] / DATA[1] RST1 / USBH2_DIR BT_MEM_CTRL[1]	GPIO2[16] 10K-PD	LCD Data Bus
121	3V3	LD2	LD2	SLCDC_DATA[2] CSI_D[15] / DATA[2] VEN1 / USBH2_STP BT_MEM_TYPE[0]	GPIO2[17] 10K-PD	LCD Data Bus
122	3V3	LD3	LD3	SLCDC_DATA[3] CSI_D[14] / DATA[3] TX1 / USBH2_NXT BT_MEM_TYPE[1]	GPIO2[18] 10K-PD	LCD Data Bus
123	3V3	LD4	LD4	SLCDC_DATA[4] CSI_D[13] / DATA[4] PD1 / USBH2_DATA[0] BT_PAGE_SIZE[0]	GPIO2[19] 47K-PU	LCD Data Bus
124	3V3	LD5	LD5	SLCDC_DATA[5] CSI_D[12] / DATA[5] RX1 / USBH2_DATA[1] BT_PAGE_SIZE[1]	GPIO1[19] 10K-PD	LCD Data Bus
125	3V3	GPIO	A13	EIM_DA_H[13] LCDC_CLS	GPIO4[1]	
126	3V3	GPIO	A15	EIM_DA_H2[15] RST1 / LCDC_PS	GPIO2[1]	
127	3V3	LD6	LD6	SLCDC_DATA[6] CSI_D[11] / DATA[6] CLK1 USBH2_DATA[2] BT_BUS_WIDTH[0]	GPIO1[20] 10K-PD	LCD Data Bus
128	3V3	LD7	LD7	SLCDC_DATA[7] CSI_D[10] / DATA[7] RST1 USBH2_DATA[3] BT_BUS_WIDTH[1]	GPIO1[21] 10K-PD	LCD Data Bus
129	GND	GND				
130	3V3	LD8	LD8	SLCDC_DATA[8] UART4_RXD/DATA[8] AUD3_TXD / TX_ERR CMD_BT_USB_SRC[0]	10K-PD	LCD Data Bus
131	3V3	LD9	LD9	SLCDC_DATA[9] UART4_TXD/DATA[9] AUD3_RXD / COL CLK_BT_USB_SRC[1]	10K-PD	LCD Data Bus
132	3V3	LD10	LD10	SLCDC_DATA[10] RTS_4 / DATA[10] AUD3_TXC / RX_ERR DAT0 / BT_MLC_SEL	10K-PD	LCD Data Bus
133	3V3	LD11	LD11	SLCDC_DATA[11] CTS_4 / DATA[11] AUD3_TXFS RDATA[2] / DAT1	10K-PD	LCD Data Bus
134	3V3	GPIO	A16	EIM_A[16] VEN1 / LCDC_REV	GPIO2[2]	Signal for common electrode driving signal preparation (Sharp panel dedicated signal).
135	3V3	GPIO	A14	EIM_DA_H2[14] CLK1 / LCDC_SPL	GPIO2[0]	Sampling start signal for left and right scanning.
136	3V3	LD12	LD12	SLCDC_DATA[12] MOSI / DATA[12] ROW[6] / RDATA[3] DAT2 / BT_SRC[0]		LCD Data Bus

PIN	Type	Function	i.MX25 Pad Name	Alternate functions	GPIO	Description (refer to I.MX25 manuals for details)
137	3V3	LD13	LD13	SLCDC_DATA[13] MISO / DATA[13] ROW[7] / TDATA[2] DAT3 / BT_SRC[1]		LCD Data Bus
138	3V3	LD14	LD14	SLCDC_DATA[14] SCLK / DATA[14] COL[6] / TDATA[3] AUD3_RXC BT_EEPROM_CFG	47K-PU	LCD Data Bus
139	3V3	LD15	LD15	SLCDC_DATA[15] RDY / DATA[15] COL[7] / RX_CLK AUD3_RXFS BT_UART_SRC[0]	10K-PD	LCD Data Bus
140	3V3	LD16 / GPIO	D15	EIM_D[15] / DAT7 LCDC_LD[16]	GPIO4[5]	LCD Data Bus
141	3V3	LD17 / GPIO	D14	EIM_D[14] / DAT6 LCDC_LD[17]	GPIO4[6]	LCD Data Bus
142	GND	GND				
143	3V3	HSYNC	HSYNC	SCL / BUFFER_EN VEN1 USBH2_DATA[4] BT_UART_SRC[1]	GPIO1[22] 10K-PD	Line Pulse or HSync
144	3V3	VSYNC	VSYNC	SDA / DMARQ / TX1 USBH2_DATA[5] BT_UART_SRC[2]	GPIO1[23] 10K-PD	Frame Sync or Vsync—This signal also serves as the clock signal output for gate; driver (dedicated signal SPS for Sharp panel HR-TFT)
145	3V3	OE_ACD	OE_ACD	SLCDC_RS SS0 / DA_1 / RX1 USBH2_DATA[7] BT_LPB_FREQ[1]	GPIO1[25] 47K-PU	Alternate Crystal Direction/Output Enable
146	3V3	LSCLK	LSCLK	SLCDC_CS DA_0 / PD1 USBH2_DATA[6] BT_LPB_FREQ[0]	GPIO1[24] 47K-PU	Shift Clock
147	GND	GND				

Module Specific Signals

148	3V3	GPIO	A10		GPIO4[0]	
149	3V3	GPIO	A17	TX1 TX_ERR	GPIO2[3]	
150	3V3	GPIO	A18	PD1 COL	GPIO2[4]	
151	3V3	GPIO	A19	RX1 RX_ERR	GPIO2[5]	
152	3V3	GPIO	A20	CLK1 RDATA[2]	GPIO2[6]	
153	3V3	GPIO	A21	RST1 RDATA[3]	GPIO2[7]	
154	3V3	GPIO	A22	VEN1 TDATA[2]	GPIO2[8]	
155	3V3	GPIO	A23	TX1 TDATA[3]	GPIO2[9]	
156	3V3	GPIO	A24	PD1 RX_CLK	GPIO2[10]	
157	3V3	GPIO	A25	RX1 CRS	GPIO2[11]	
158	3V3	GPIO	CS0		GPIO4[2]	
159	3V3	GPIO	CS1	NANDF_CE3	GPIO4[3]	
160	GND	GND				
161	3V3	D[0]	D[0]			
162	3V3	D[1]	D[1]			
163	3V3	D[2]	D[2]			
164	3V3	D[3]	D[3]			
165	3V3	D[4]	D[4]			
166	3V3	D[5]	D[5]			
167	3V3	D[6]	D[6]			

PIN	Type	Function	i.MX25 Pad Name	Alternate functions	GPIO	Description (refer to I.MX25 manuals for details)
168	3V3	D[7]	D[7]			
169	3V3	A [0]	A [0]			
170	3V3	A [1]	A [1]			
171	GND	GND				
172	NVDD_DR YICE	TAMPER_A	TAMPER_A			DRYICE external tamper detect pins, active high. If either TAMPER_A or TAMPER_B asserted, then external tampering is detected. Should be tied to pull-down if no tamper detection is required on board.
173	NVDD_DR YICE	TAMPER_B	TAMPER_B			
174	NVDD_DR YICE	MESH_C	MESH_C			Wire-mesh tamper detect pins which can be routed at the PCB board to detect attempted tampering of a protected wire. MESH_C is active high and should be connected to an on-board pull-down if no tamper detection is required. MESH_D is active low and should be connected to an on-board pull-up if no tamper detection is required.
175	NVDD_DR YICE	MESH_D	MESH_D			
176	3V3	A [2]	A [2]			
177	3V3	A [3]	A [3]			
178	3V3	A [4]	A [4]			
179	3V3	A [5]	A [5]			
180	3V3	A [6]	A [6]			
181	3V3	A [7]	A [7]			
182	3V3	A [8]	A [8]			
183	GND	GND				
184	analog	REF	REF			Touchscreen ADC External reference voltage (2.5 V). REF may be left floating if the internally generated 2.5 V supply is enabled. Use of an external reference is recommended.
185	analog	XN	XN			
186	analog	XP	XP			
187	analog	YN	YN			
188	analog	YP	YP			
189	analog	WIPER	WIPER			
190	analog	INAUX0	INAUX0			General purpose measurements channels
191	analog	INAUX1	INAUX1			
192	analog	INAUX2	INAUX2			
193	power	NVCC_DRYICE	NVCC_DRYICE			DRYICE power supply output. Source can be SoC supply or backup supply. This pin can be used to power external tamper detect components.
194	3V3	A [9]	A [9]			
195	3V3	A [11]	A [11]			
196	3V3	A [12]	A [12]			
197	NC					not connected
198	NC					not connected
199	NC					not connected
200	GND	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

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.