PPC-10-IMX6M

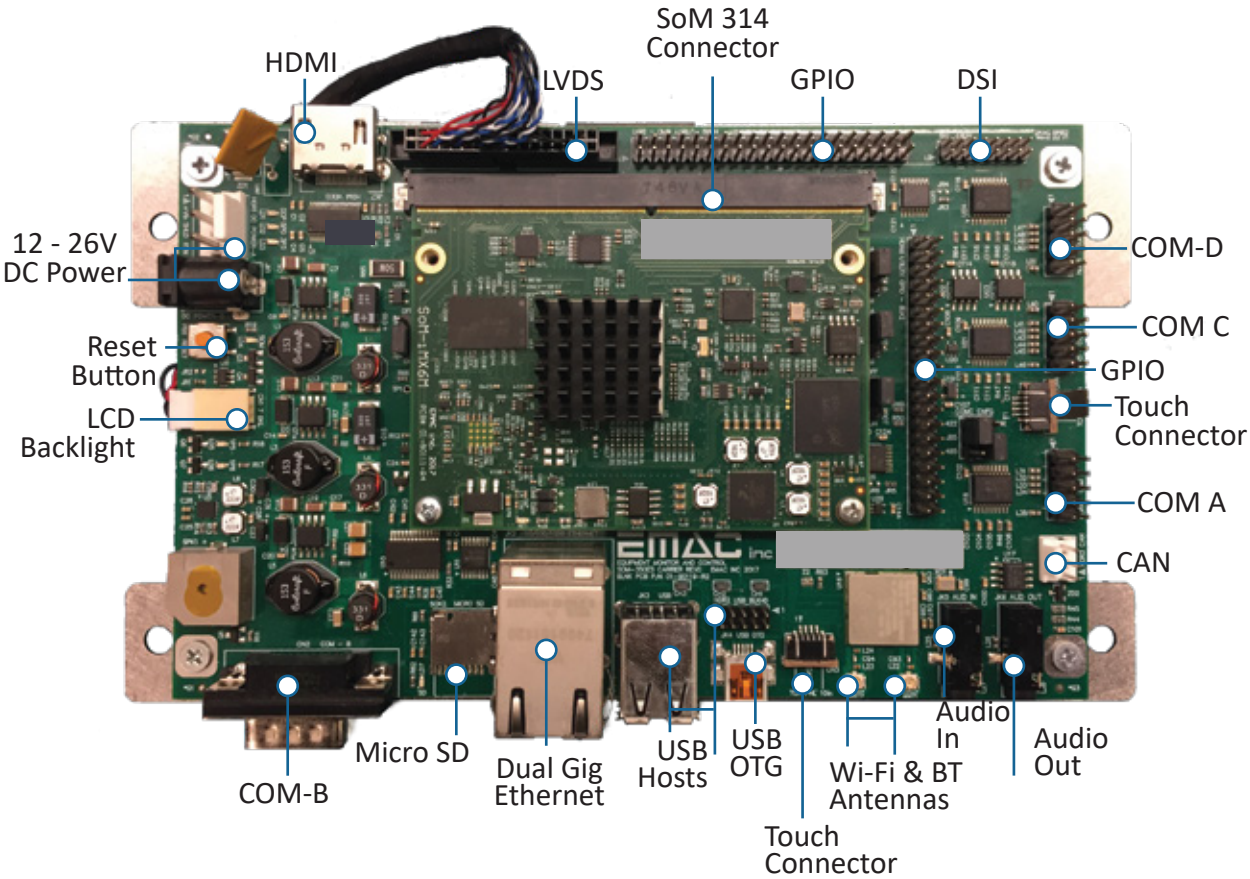
Panel PC Open Frame

Features

- NXP i.MX6 1.0GHz , Dual or Quad Cores
- Up to 2 GB DDR3L of SDRAM,16MB Serial Data Flash
- 4GB of eMMC Flash, micro SD card, mSATA
- 10/100/1000 BaseT Ethernet with on-board PHY
- Wireless 802.11 b/g/n & Bluetooth (Optional)
- 2x USB 2.0 High Speed Host & 1x USB 2.0 High OTG
- 3x RS232 & 1 RS232/422/485 Port
- HDMI Video & Audio Ports
- 10" TFT Color LCD with Resistive Touch Screen

Specifications

Processor	NXP Dual/Quad iMX6 ARM Cortex A9 Fanless Processor
	1 GHz
Memory	1G DDR3L of SDRAM (Dual), 2GB DDR3 (Quad)
	4GB of eMMC Flash, 1x Micro-SD Socket, 1x Full-sized mSATA
I/O	16x+ GPIOs
	1x I2S Audio with Line-in/out Port
	10/100/1000 Base-T Ethernet
	2x USB 2.0 High Speed Host Port
	1x USB 2.0 High Speed OTG Port
	3x RS232 & 1x RS232/422/485 Port
	2x SPI Port
	3x I2C Port
	Timer/Counters/PWM
	1x Audio Beeper
	2x CAN 2.0B Ports
Video	10" TFT LVDS Color LCD option, 1024 x 600 WSVGA @ 256K Colors (Operating Temperature: 0° to +50°C) 460 (cd/m^2)
	Resistive Touch Screen Interface and Software Controlled Backlight On/Off & Brightness
	HDMI OUT
Analog	4x A/D Channels with 12-bit A/D Converter
Wireless	TI WL1835MOD supporting 802.11 a/b/g/n Wi-Fi, 2 × 2 MIMO channels (optional)
	TI WL1835MOD supporting Bluetooth with dual-mode Bluetooth 4.1 and Bluetooth LE (optional)
Bus Expansion	Full-sized Mini-PCIe socket (PCIe signals only)
OS	EMAC OE Embedded Linux with Uboot
Dimensions	5.76" x 10.25" (146mm x 260mm)
Power Req.	12-26V @ 12W
Environment	0° to + 50° C (Temperature limited by LCD)



Ordering Information

PRODUCT #	CPU	MEMORY	SERIAL	GPIO	USB	VIDEO	CONNECTIVITY	TEMPERATURE
PPC-10-IMX6-2R	NXP Dual Core IMX6 ARM Cortex A9 1 GHz	4GB of eMMC Flash, 1x Micro-SD Socket, 1x Full-sized mSATA	4x	16x	2x USB Host, 1x USB OTG	WSVGA(1024 x 600) Resolution with LED Backlight	10/100 /1000 BaseT Ethernet, WiFi, Bluetooth	0° to + 50° C
PPC-10-IMX6-3R	NXP Dual Core IMX6 ARM Cortex A9 1 GHz	4GB of eMMC Flash, 1x Micro-SD Socket, 1x Full-sized mSATA	4x	16x	2x USB Host, 1x USB OTG	WSVGA(1024 x 600) Resolution with LED Backlight	10/100/1000 BaseT Ethernet	0° to + 50° C
PPC-10-IMX6-4R	NXP Quad Core IMX6 ARM Cortex A9 1 GHz	4GB of eMMC Flash, 1x Micro-SD Socket, 1x Full-sized mSATA	4x	16x	2x USB Host, 1x USB OTG	WSVGA(1024 x 600) Resolution with LED Backlight	10/100 /1000 BaseT Ethernet, WiFi, Bluetooth	0° to + 50° C
PPC-10-IMX6-5R	NXP Quad Core IMX6 ARM Cortex A9 1 GHz	4GB of eMMC Flash, 1x Micro-SD Socket, 1x Full-sized mSATA	4x	16x	2x USB Host, 1x USB OTG	WSVGA(1024 x 600) Resolution with LED Backlight	10/100 /1000 BaseT Ethernet,	0° to + 50° C

Optional Accessories

PRODUCT #	POWER SUPPLY
PER-PWR-00035	12V @ 2.1A Wall Power Supply (110 V @ 60 HZ US)
PER-PWR-00075	12V @ 2.1A, 90-264V @ 47-63Hz input, universal power prongs for worldwide use, 2.1mm barrel
PER-PWR-00090	12V @ 2.5A Desktop Power Supply, standard IEC 320-C14 input connector, 2.1mm barrel jack output
PER-MIS-00050	2.4GHz & 5GHz WiFi Antenna with 10 cm cable, IPEX connector, adhesive antenna.
PER-FAN-00013-PR	Heat Spreader option for the SoM-iMX6M-352 (Dual) & SoM-iMX6M-354 (Quad)