

PPC-07-IMX6M Multi-Core ARM HMI PC

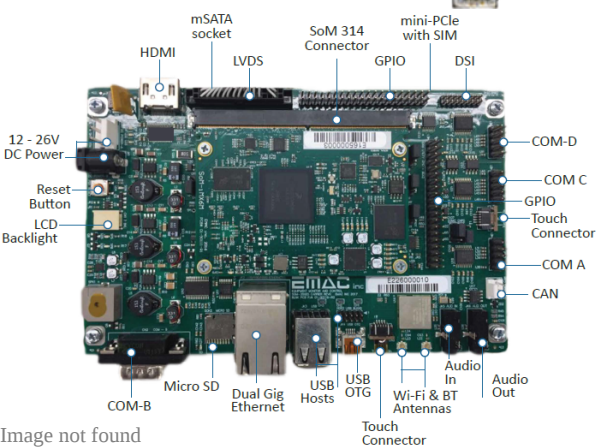


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NXP i.MX6 1.0GHz ARM Dual or Quad Core Processor

upto 2GB DDR3L of SDRAM (1GB Dual, 2GB Quad)

16 MB Serial Data flash

4GB of eMMC Flash

Inexpensive Open-Frame Design

10/100/1000 BaseT Ethernet with on-board PHY

Wireless 802.11 b/g/n & Bluetooth 4.2 onboard (Optional)

- Two WiFi Antennas with Cables required to use both Bluetooth and WiFi, antennas & cables sold seperately.

WiFi supports:

- MIMO - Multiple Input Multiple Output for High Throughput: 80 Mbps (TCP), 100 Mbps (UDP)
- 2.4-GHz MRC (Maximum Ratio Combining) Support for Extended Range

3x RS232 & 1x RS232/422/485 Port

2x USB 2.0 (High Speed) Host port

1x USB 2.0 (High Speed) OTG port

Battery backed Real Time Clock

1x mini PCIe Socket with SIM

1x mSATA Socket

1x Micro-SD Flash Card Socket

1x I2S Audio port with Stereo Line-In/Line-Out

Timer/Counters and Pulse Width Modulation (PWM) ports

16x GPIO Dedicated

4x Channel 12-bit Analog-to-Digital converter

Operating Voltage of 12 to 28 Vdc.

Graphic LCD Interface with optional 2D acceleration & hardware CODECs

WVGA (800 x 480) Resolution with LED Backlight

LVDS Touch Screen Interface and Software Controlled Backlight On/Off & Brightness

Luminance (800 Nits)

JTAG for debug, including real-time trace

Operating temperature: -20° to 70°C (when equipped with Heat spreader)

The PPC-07-IMX6M is a powerful out of the box Compact Panel PC solution. This system comes ready to run with the Operating System installed on the on-board flash. Apply power and watch either the Linux X Windows or Linux Qt User Interface appear on the vivid color LCD. Interact with the PPC-07 using the responsive integrated touchscreen. Everything works out of the box, allowing you to concentrate on your application, rather than building and configuring device drivers. Just Write-It and Run-It. Use EMAC's Qt development tools to quickly develop and debug your HMI application, setup an M2M network, connect some IOT devices and/or configure the Digital inputs and outputs to provide and receive information to other devices. Then have the ability to access and control the system both locally and anywhere in the world via the internet.

Specifications
Panel PC type.

Open Frame PPC
Processor
Processor.

NXP Dual/Quad iMX6 ARM Cortex A9 Fanless Processor

Clock Speed:

1 GHz

Real Time Clock:

Processor Misc.:

MCIMX6D6AVT10AD Dual 1GHz

MCIMX6Q6AVT10AD Quad 1GHz

Memory
BIOS/ Bootloader:

Uboot

Primary Flash:
4GB of eMMC Flash
Secondary Flash:
Micro-SD card
Memory Misc.:
*Memory depends on CPU option.

Primary I/O
GPIO:
16x GPIO
SDIO:
1x SDIO Micro-SD Port
Video Out:
LVDS and HDMI
Audio:
Line-in and Line-out
Ethernet:
1x 10/100/1000 Mbps
USB:
2x USB 2.0 High Speed Host ports & 1x OTG port
Serial Ports:
4x COM (3x RS232 & 1x RS232/422/485)
Watchdog:
Primary I/O Misc.:
Wireless and Bluetooth:TI WL1835MOD supporting: (optional)

802.11 b/g/n Wi-Fi, 2 × 2 MIMO channels

Bluetooth with dual-mode Bluetooth 4.2 and Bluetooth LE

Requires 2 IPEX cables and 2.4GHz antennas to utilize both Bluetooth and WiFi.

Secondary I/O
CAN:
2x CAN 2.0b (1x CAN with Transceiver & 1x CAN TTL)
LPT Port:
Keypad:
PS/2:
Touch:
4-wire analog resistive Touchscreen

Expansion
Bus:
mini-PCIe Socket with SIM

Analog
A/D:
A/D Channels:
4
A/D Resolution:
12 bit
D/A:

Dimensions

Dimensions: 7.55 × 4.15 in	
Power Requirements Power Misc.:	
Wide voltage input- 12-28V	
Typical power draw 12W	
Environmental Low Operating Temperature:	-20 C
High Operating Temperature: 70 C	
Environmental Misc.: PPC-07-IMX6S - Solo: 0° to 60°C	
PPC-07-IMX6M - Dual and Quad: -20° to 70°C	
Pricing Product Variations:	
PPC-07-IMX6-2R	
7" Open Frame Panel PC w/ Touchscreen, SoM-350ES & SoM-IMX6M. Dual 1GHz, 1GB RAM, 4GB eMMC Flash, mSATA, microSD, 4x COM, 2x USB2, GbE LAN, mini-PCIE, WIFI, Bluetooth, HDMI, 7" LCD (-20° to 70°C, Heat-spreader recommended above 40°C)	
\$650.00	
Order:	
0	
Parent Product:	
PPC-07-IMX6-3R	
7" Open Frame Panel PC w/ Touchscreen, SoM-350ES & SoM-IMX6M. Dual 1GHz, 1GB RAM, 4GB eMMC Flash, mSATA, microSD, 4x COM, 2x USB2, GbE LAN, mini-PCIE, HDMI, 7" LCD (-20° to 70°C, Heat-spreader recommended above 40°C)	
\$615.00	
Order:	
0	
Parent Product:	
PPC-07-IMX6-4R	
7" Open Frame Panel PC w/ Touchscreen, SoM-350ES & SoM-IMX6M. Quad 1GHz, 1GB RAM, 4GB eMMC Flash, mSATA, microSD, 4x COM, 2x USB2, GbE LAN, mini-PCIE, WIFI, Bluetooth, HDMI, 7" LCD (-20° to 70°C, Heat-spreader recommended above 40°C)	
\$715.00	
Order:	
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Parent Product:	
PPC-07-IMX6-5R	
7" Open Frame Panel PC w/ Touchscreen, SoM-350ES & SoM-IMX6M. Quad 1GHz, 1GB RAM, 4GB eMMC Flash, mSATA, microSD, 4x COM, 2x USB2, GbE LAN, mini-PCIE, HDMI, 7" LCD (-20° to 70°C, Heat-spreader recommended above 40°C)	
\$675.00	

Order:

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Parent Product:

Disk Interface:

mSATA Card Socket

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