



## Features

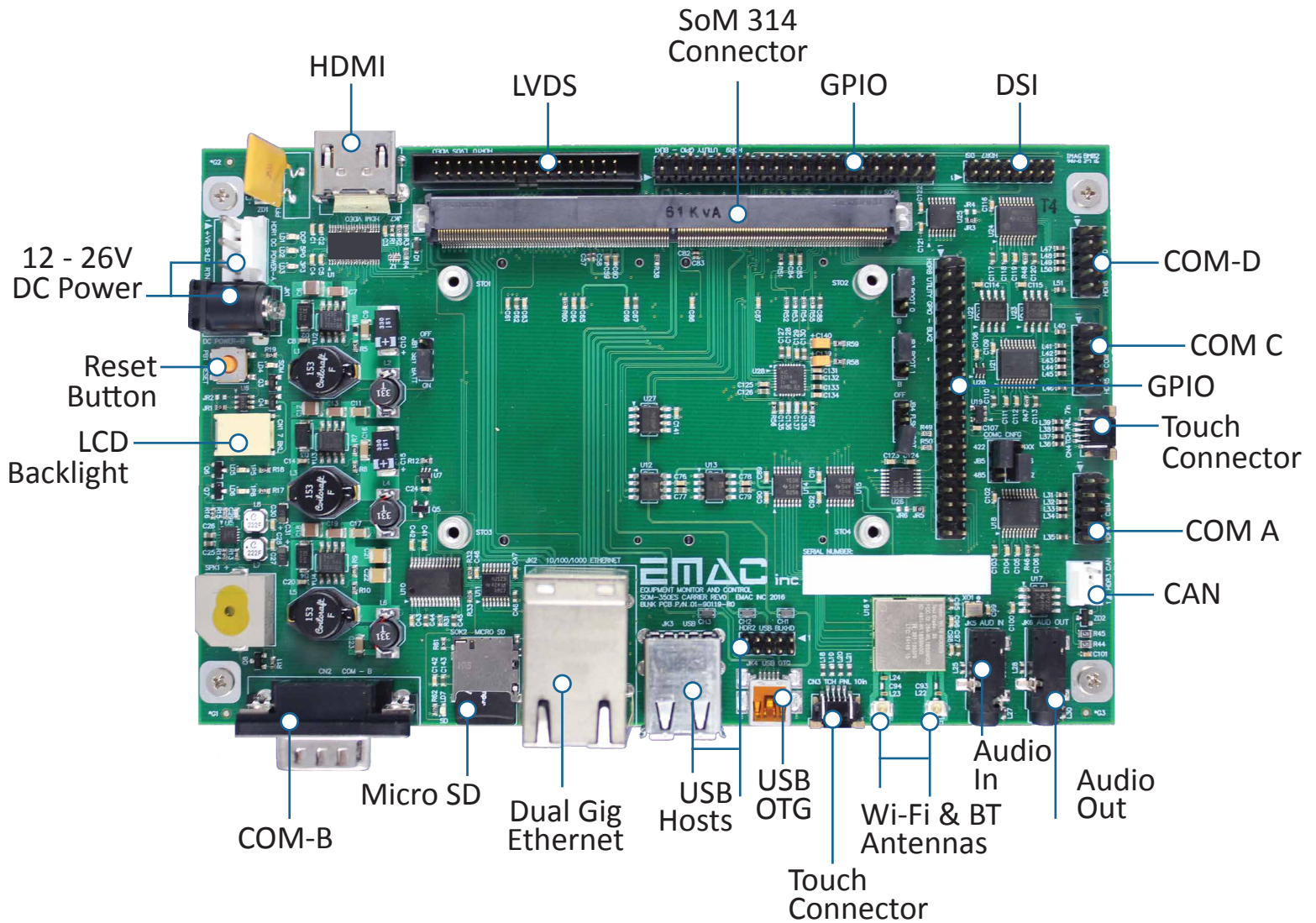
- NXP i.MX6 1.0GHz Solo Core, Dual or Quad Cores
- Up to 2GB DDR3L of SDRAM
- 4GB of eMMC Flash, micro SD, mSATA
- 10/100/1000 BaseT Ethernet with on-board PHY
- Wireless 802.11 b/g/n & Bluetooth (Optional)
- 2x USB 2.0 High Speed Host & 1x USB 2.0 High OTG
- 3x RS232 & 1 RS232/422/485 Port
- HDMI Video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



## Specifications

Processor	NXP Solo iMX6 ARM Cortex A9 Fanless Processor 1 GHz
Memory	512MB DDR3L of SDRAM 4GB of eMMC Flash, Micro SD Socket
I/O	16+ 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	7" TFT LVDS Color LCD option, 800 x 480 WVGA @ 256K Colors (Operating Temperature: (-20° to +70°C) 800 (cd/m <sup>2</sup> ) Resistive Touch Screen Interface and Software Controlled Backlight On/Off & Brightness HDMI
Analog	4x A/D Channels with 12-bit A/D Converter
Wireless	TI WL1835MOD supporting 802.11 a/b/g/n Wi-Fi, 2 x 2 MIMO channels (optional) TI WL1835MOD supporting Bluetooth with dual-mode Bluetooth 4.1 and Bluetooth LE (optional)
Bus Expansion	PCIe Bus
OS	EMAC OE Embedded Linux with Uboot
Dimensions	7.55" x 4.15" (146mm x 260mm)
Power Req.	12-26V @ 12W
Environment	0° to +60° C





## Ordering Information

PRODUCT #	CPU	MEMORY	SERIAL	GPIO	USB	VIDEO	CONNECTIVITY	TEMPERATURE
PPC-07-IMX6-0	NXP Solo Core IMX6 ARM Cortex A9 1 GHz	512B SDRAM 4GB eMMC Flash microSD, mSATA	4x	16x	2x USB Host, 1x USB OTG	WVGA (800 x 400) Resolution with LED Backlight	10/100/1000 BaseT Ethernet	0° to +60° C
PPC-07-IMX6-1	NXP Solo Core IMX6 ARM Cortex A9 1 GHz	512B SDRAM 4GB eMMC Flash microSD, mSATA	4x	16x	2x USB Host, 1x USB OTG	WVGA (800 x 400) Resolution with LED Backlight	10/100/1000 BaseT Ethernet, WiFi	0° to +60° 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, 2.1 mm barrel
PER-PWR-00090	12V @ 2.5A Desktop Power Supply, standard IEC 320-C14 input connector, 2.1mm barrel jack output
PER-MIS-00048	2.4GHz wifi antenna & 20 cm cable
PER-FAN-00013-PR	Heat Spreader option for the SoM-iMX6M-352 (Dual) & SoM-iMX6M-354 (Quad)

