EMB-2230
EMBEDDED BOARD

FEATURES

- NXP i.MX6 1 GHz Dual-Lite Or Quad Core Processor
- One Gigabit Ethernet Port, One Wi-Fi/Bluetooth Module
- Build-In PoE Option
- On-Board RAM, iNAND Flash & Micro SD Slot
- LVDS, MIPI DSI For LCD Panel, Built-In I²C Support
- Ultra-Small Form Factor & Ultra-Slim Configuration Option
- Rich I/O With RS-232/485, I²C, GPIOS & USB 2.0 Ports

The EMB-2230 is a Pico-ITX (100x 72mm) industrial motherboard based on the NXP i.MX6 ARM application processor. The board features a Power over Ethernet (PoE) ready Gigabit Ethernet port, on-board Wi-Fi/Bluetooth, multiple LCD panel display interfaces and full set of I/Os including RS-232/485, CAN bus, digital I/O and more.

SPECIFICATIONS

SYSTEM

Processor	NXP i.MX 6 1GHz Dual lite Or Quad Core
Platform	ARM Cortex A9
Memory	Onboard 1GB DDR3
OS	Windows 10
	Windows 10 IoT
	Linux
	Android 5.1
Storage	Onboard iNAND Flash (8GB Default)
	1x Micro SD slot

DISPLAY

Interface	1x Micro HDMI
LCD Interface	1x 24bit LVDS and 1x MIPI DSI For 7", 8", 10.1" & Other Panel Sizes
Resolution	HDMI - 1920 x 1080
	LVDS - 1920 x 1080

COMMUNICATIONS

Ethernet	1x 10/100/1000 Mbps GbE PoE Option
	1x 10/100/1000 Mbps PCIe GbE (Option With Add-On Card)
Wireless	1x Wi-Fi/Bluetooth Module

I/O INTERFACE

Audio	Line-Out
	MIC-In
	Headphone
	Spkr Out Header (Up To 2.1W/CH)
Ports	1x RS-232/RS-485 Terminal Block
	1x RS-232 Header
	2x USB 2.0 Type A
	2x USB 2.0 Header
	1x Micro USB 2.0 OTG
	4+ GPIO
	2x I²C (For TP & MIPI CSI)
	1x CAN Via Terminal Block

EXPANSION I/O

Expansion	1x 40-pin Connector W/ PCIe x1
	GPIO, Front Panel Control, PoE

MECHANICAL

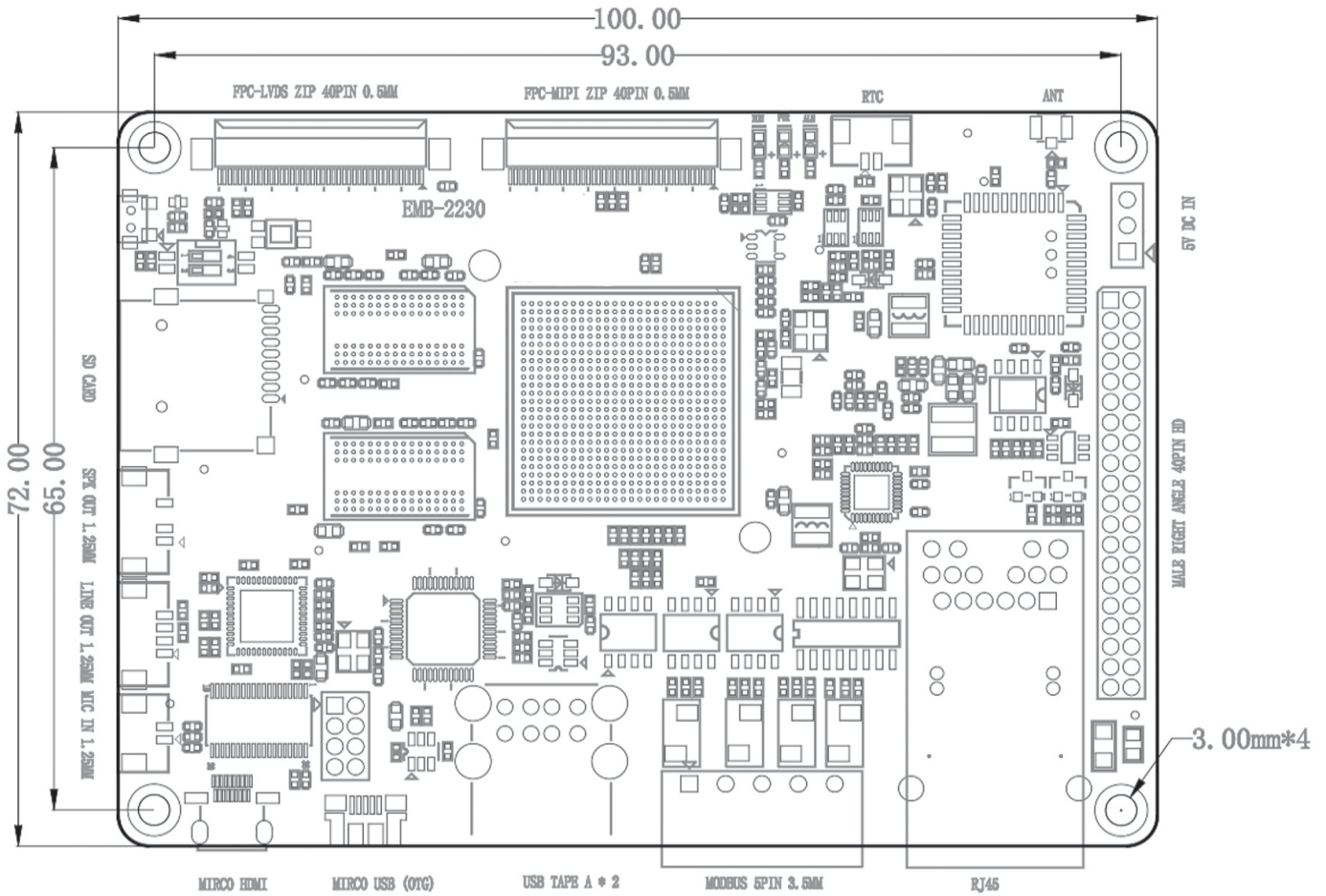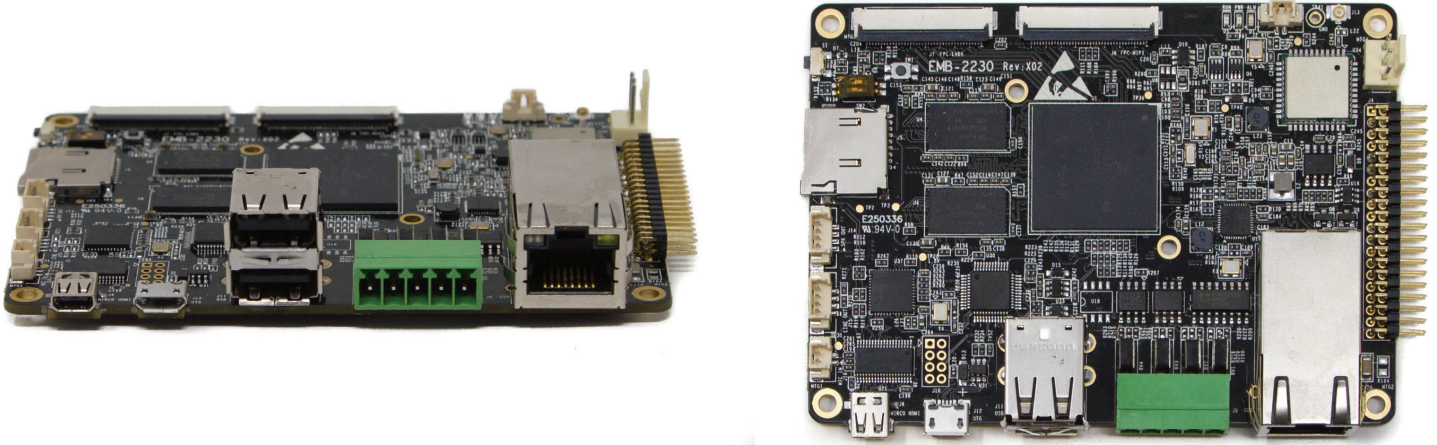|	
Cooling	Fanless
Watchdog Timer	Programmable Time System Reset
Form Factor	Embedded Pico-ITX Standard
Dimensions	100mm x 72mm (3.94" x 2.83")

POWER

Input Voltage	5V DC Header Or PoE

ENVIRONMENTAL

Operating Temp	0°C to 60°C (32°F to 140°F)
Storage Temp	-40°C to 85°C (-40°F to 185° F)
Humidity	5% to 95% @ 40°C (Non-Condensing)

*Specifications are representative. Specific product technology may be different than indicated.

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ORDER OPTIONS

PART NUMBER	DESCRIPTION
EMB-2230DL	NXP i.MX6 Dual-Lite With Single NIC
EMB-2230Q	NXP i.MX6 Quad-Core With Single NIC
IOB-4210	Second NIC Add-On Module With DC In
POE-4210	POE Add-On Module
PPC-4210	10.1" Touch Panel PC Development Kit With EMB-2230DL