

FEATURES

- Intel Quad Core Atom x5-Z8350 Processor
- One Gigabit Ethernet Port, One Wi-Fi/Bluetooth Module
- Build-In PoE Option
- On-Board RAM, iNAND Flash & Micro SD Slot
- LVDS, eDP, MIPI DSI For LCD Panel Support
- Ultra-Small Form Factor & Ultra-Slim Configuration Option
- Rich I/O With RS-232/485, I²C, & USB Ports

Designed for IoT applications with tablet-like form factors, the EMB-2610 is a small form factor Pico-ITX (100x 72mm) industrial motherboard based on the Intel Atom x5-Z8350 processor. The board features a Power over Ethernet (PoE) ready Gigabit Ethernet port, on-board Wi-Fi/BT, LVDS, MIPI, eDP LCD panel display interfaces support, I²C and USB touch panel support and full set of I/Os including RS-232/485, digital I/O and more.

SPECIFICATIONS

SYSTEM

Processor	Intel Quad Core Atom 1.92GHz x5-Z8350
Platform	Cherry Trail
Graphic Controller	HD Graphics (Cherry Trail)
Memory	Onboard 2GB Or 4G DDR3L
OS	Windows 10 Windows 10 IoT Linux Android 5.1
Storage	1x m.2 2230 B-Key SATA Slot Onboard iNAND Flash, 32GB Or 64G 1x Micro SD slot

DISPLAY

Interface	1x Micro HDMI
LCD Interface	1x LVDS/eDP 1x MIPI DSI for 7", 8", 10.1" & Other Panel Sizes
Resolution	HDMI - 1920 x 1080 LVDS/eDP/MIPI DSI - 1920 x 1200

COMMUNICATIONS

Ethernet	1 x 10/100/1000 Mbps GbE PoE Option
W-Fi/Bluetooth	1x Wi-Fi/Bluetooth Module

I/O INTERFACE

Audio	Line-Out, MIC-In, Headphone, Speaker Out Header (Up To 10W)
Ports	1x RS-232/RS-485 Terminal Block 1x RS-232 Header 1x USB 2.0 Type A 1x USB 2.0/3.0 Type A 1x USB 2.0 Header 1x Micro USB 2.0 4+ GPIO 2x I ² C (For TP & MIPI CSI) 1x MIPI CSI

EXPANSION I/O

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

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

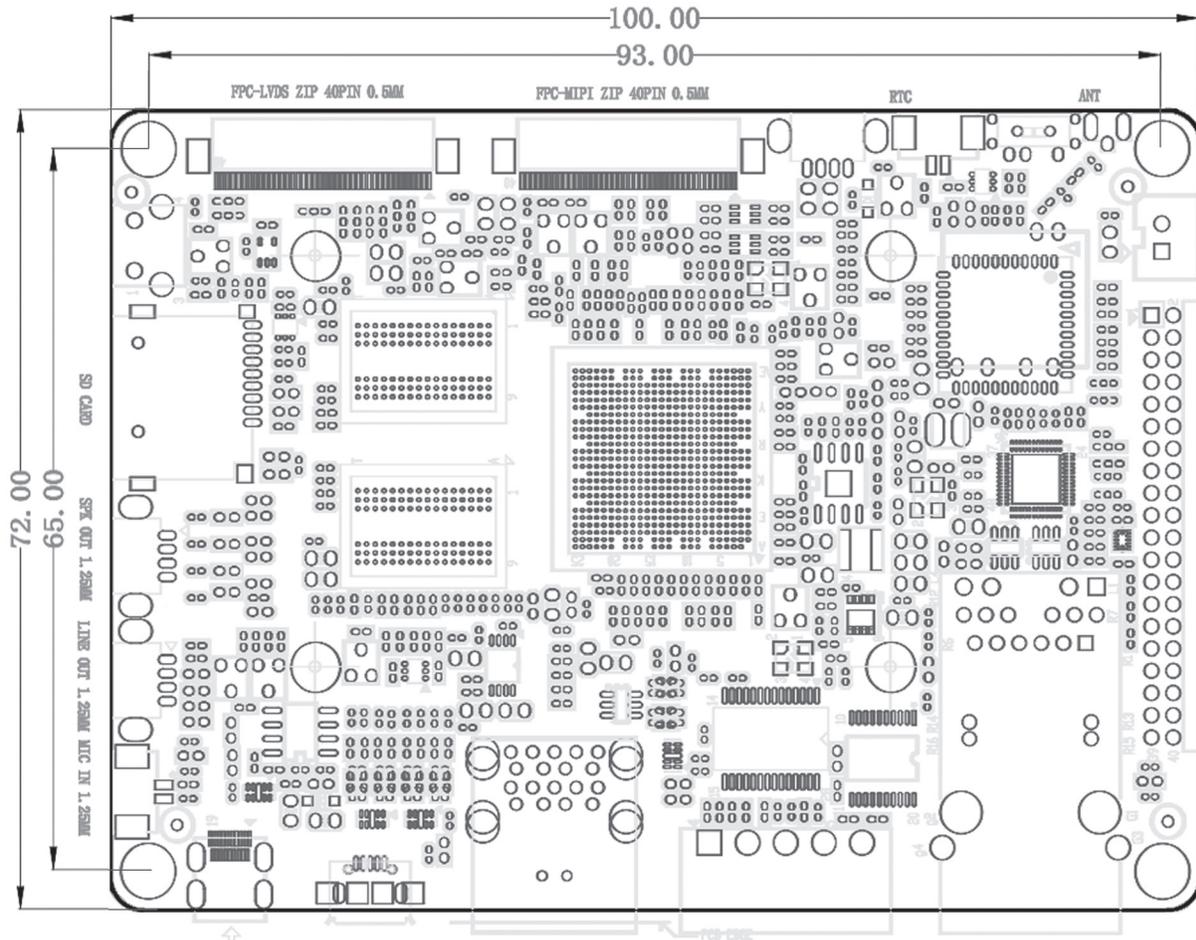
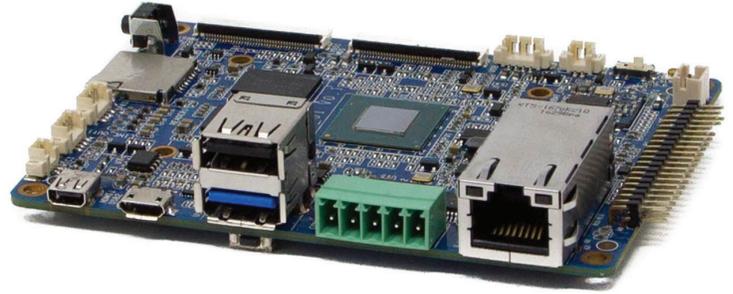
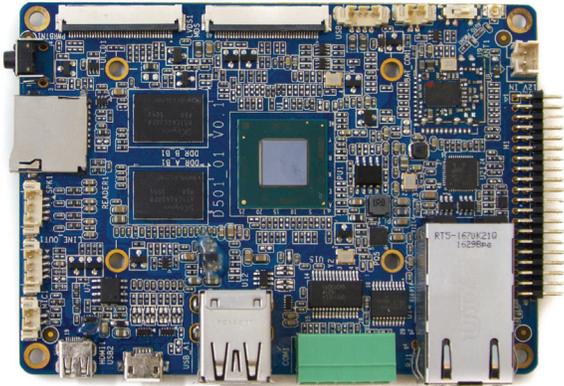
POWER

Input Voltage	12V/19V DC Header Or PoE
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ENVIRONMENTAL

Operating Temp	0°C to 50°C (32°F to 122°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.



*Dimensions in mm

ORDER OPTIONS

PART NUMBER	DESCRIPTION
EMB-2610S	Atom x5-Z8350, 2GB DDR, 32 GB eMMC
EMB-2610E	Atom x5-Z8350, 4GB DDR, 64 GB eMMC
HB-POE4210	12V POE Add-On Module