

### FEATURES

- NXP i.MX6 DL Or Quad Cortex-A9 ARM Processor
- Open Module Design With 3D Expansion
- Small Footprint & Low Profile - Fits In 2-Gang Electrical Box
- 200-Pin Top & Bottom Headers To Bring Out Flexible I/O
- SOM-Like Single Board Computer
- Fully Supports Yocto Embedded Linux & QT

The EMB-1200 is an ultra-small form factor embedded board based on the Freescale i.MX6 Cortex A9 ARM platform. Choose either a Freescale i.MX6DL or i.MX6Q processor with onboard DDR3 memory and iNAND flash storage. The I/O interfaces include HDMI, USB 2.0, micro SD, serial console, OTG and 200-pin headers on top and bottom for all the display ports, camera ports, CAN, serial, I<sup>2</sup>C, SPI, SDIO and more i.MX6 I/O resources.

### SPECIFICATIONS

#### SYSTEM

Processor Platform	Freescale 1GHz i.MX6DL (Default) Or i.MX6Q
Graphic Controller	Freescale i.MX6 Vivante GC 880 + Vivante GC 320 (i.MX6DL) Vivante GC 2000 + Vivante GC 355 + Vivante GC 320 (i.MX6Q)
Memory	64-bit 1GB DDR3 SDRAM 400MHz (i.MX6DL) Or 528MHz (i.MX6Q)
Storage	4GB iNand Flash, Up To 32GB 1x Micro SD Socket (Does Not Support Hot Plug)

#### DISPLAY

Interface	1x Mini HDMI
Resolution	HDMI - 1920 x 1080

#### COMMUNICATIONS

Ethernet	Onboard Gigabit Ethernet PHY
Wireless	1x Wi-Fi/Bluetooth Module

#### I/O INTERFACE

Audio Ports	Line-Out, MIC-In, Headphone, Spkr Out Header (Up To 2.1W/CH) 2x 4-pin 2.0mm Pitch USB 2.0 Pin Headers 1x 4-pin TTL Serial Port 1x OTG Device Only
Switches	1x 2-bit DIP Switch For iNAND & Micro SD Boot Selection 1x On-Board Power Switch

#### EXPANSION I/O

Expansion	4x 50-pin W/ 1.27mm Pitch Top & Bottom For I/O Expansion 200-pin Top & Bottom Female Headers Offer 24-bit Parallel Display Port, Dual Channel 24-bit LVDS, MIPI DSI Up To 24-bit, MIPI CSI For Up To 4 Lanes, 8-bit Parallel Camera Interface, GbE PHY, x1 PCIe PHY 2x USB 2.0, I <sup>2</sup> S Audio Codec Output W/ Line-Out/Detect, Line-Out, Mic-In/Detect, Speaker Out (1W), 4-bit SDIO, & IOMUX Outputs: Up To 5x UART 2x CAN 3x SPI 3x I <sup>2</sup> C, 34 Configurable GPIO
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#### MECHANICAL

Form Factor	H1oTX
Dimensions	85mm x 72mm (3.34" x 2.83")

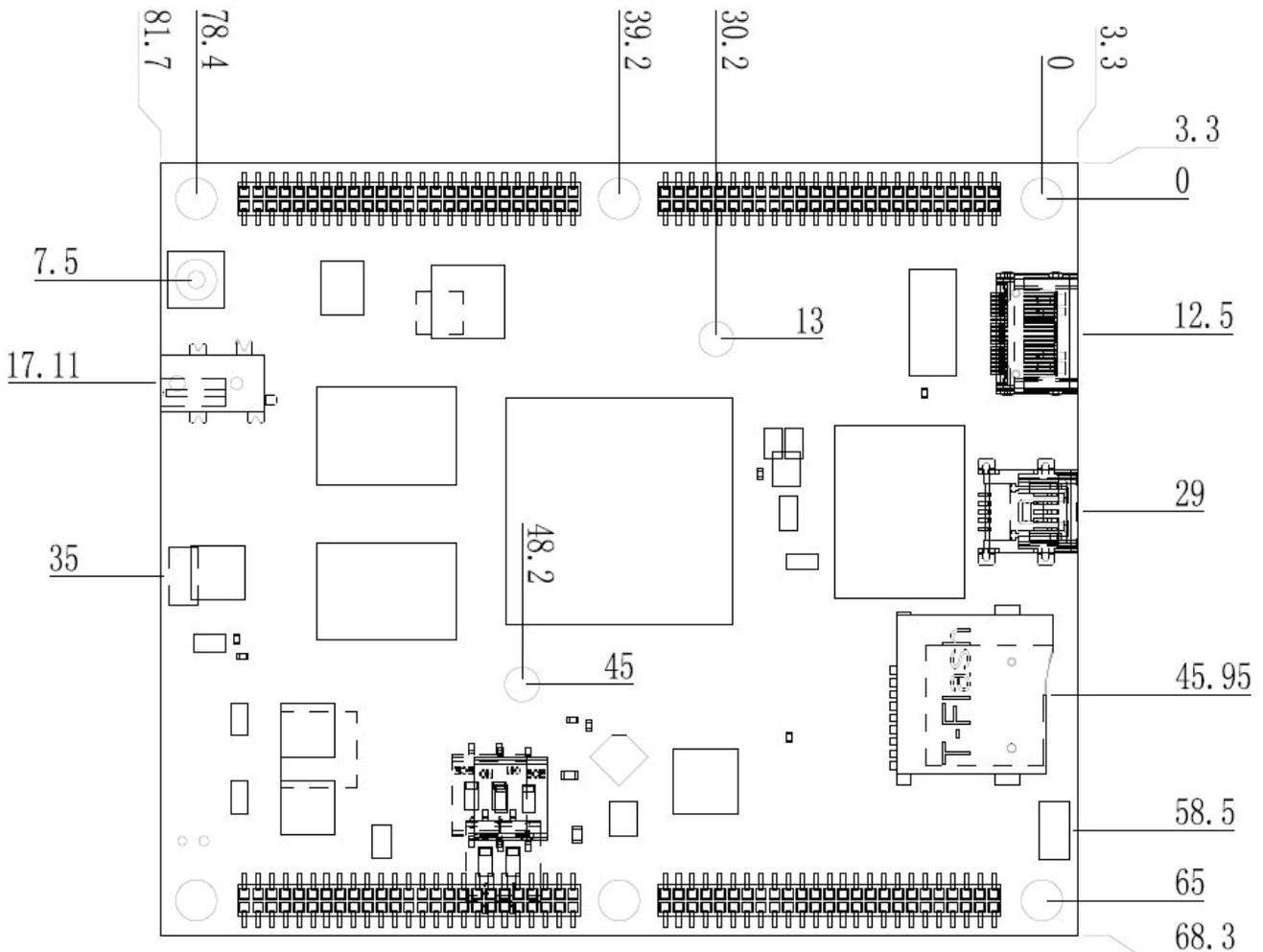
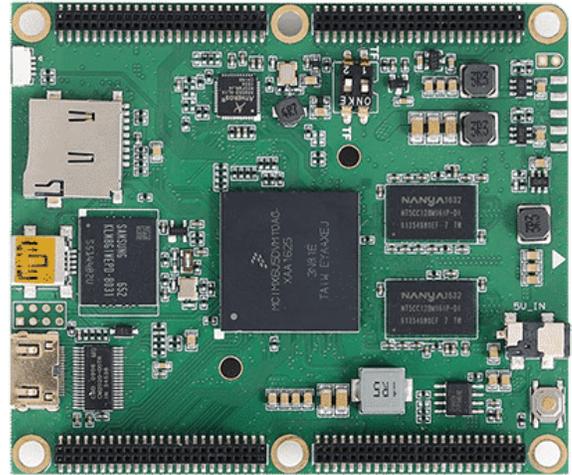
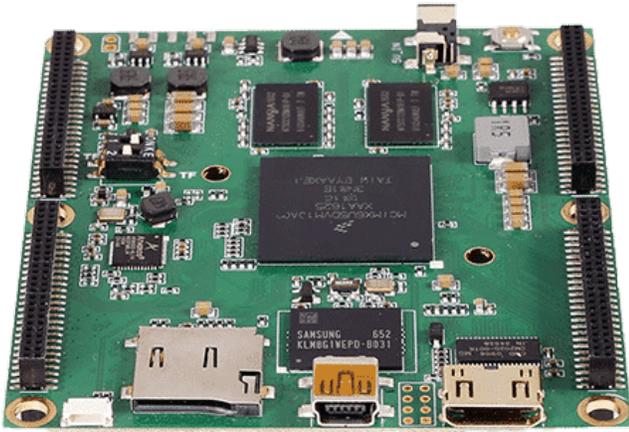
#### POWER

Input Voltage	5V/2A DC Power Input, 2.5mm OD, 0.7mm ID
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#### ENVIRONMENTAL

Operating Temp	0°C to 50°C (32°F to 122°F) <b>Option:</b> 50°C to 75°C
Storage Temp	-40°C to 80°C (-40°F to 176° F)
Humidity	5% to 95% (Non-Condensing)

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



\*Dimensions in mm