

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, I²C, 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 1 x 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 ² 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 ² C, 34 Configurable GPIO
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MECHANICAL

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

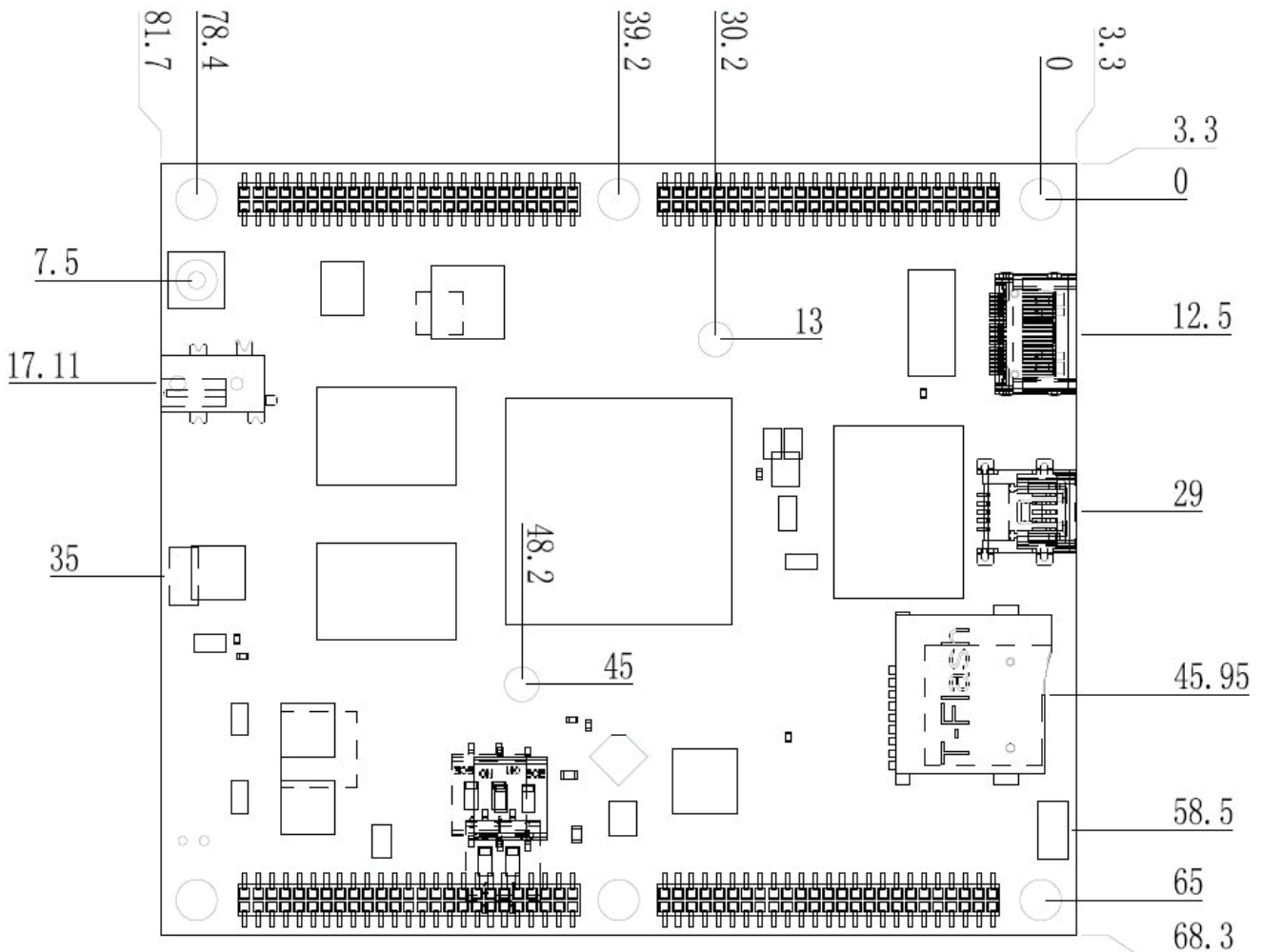
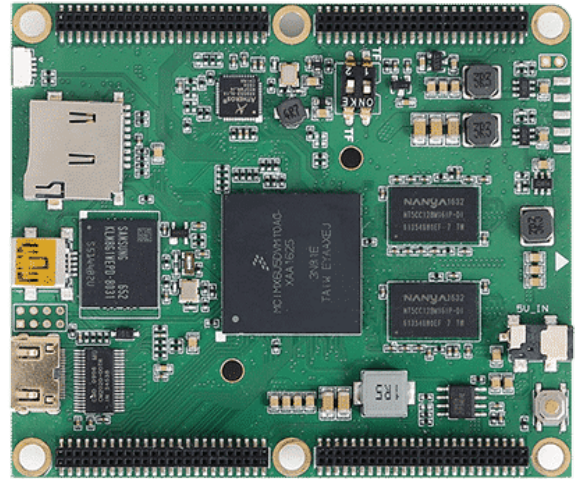
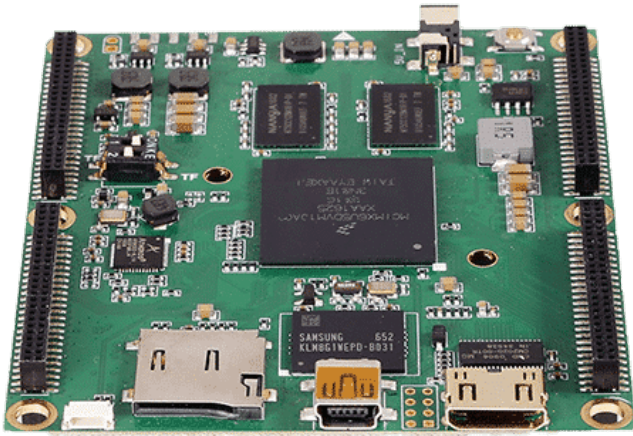
POWER

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) Option: 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