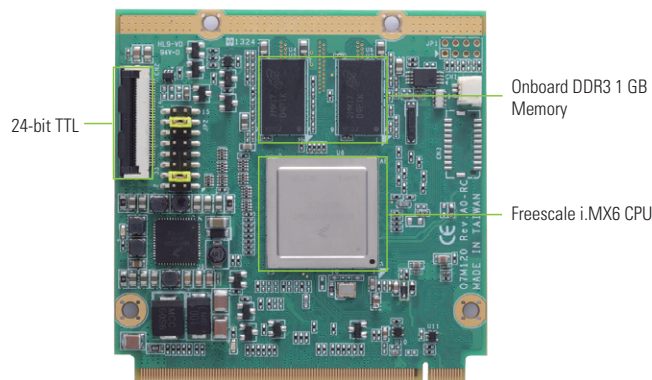


# Q7M120

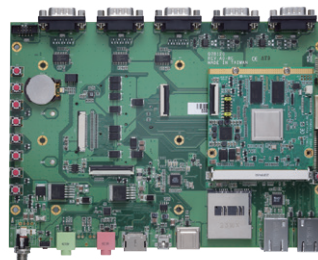
Qseven v2.0 SoM with iMX6 Quad/DualLite 800 MHz (Industrial) SoC, 1GB RAM, 4GB eMMC, GbE LAN, Audio and CAN

## Features

- Qseven v2.0 (70 x 70 mm)
- Ultra low power consumption Cortex™-A9
- 2 CAN
- 24-bit TTL signal
- LVDS/HDMI 1080P
- 10/100/1000 Mbps Ethernet
- Linux 3.0.35/Android 4.3
- Audio



▲ Top view



▲ Rear view

## Core System

Processor	Freescale i.MX6 Series SoC with Quad/DualLite/Solo ARM Cortex™-A9 CPU 800 MHz/1 GHz (only Solo)
System Memory	Onboard DDR3-1600, up to 1GB
OS	Linux kernel 3.0.35, Android 4.3
Storage	eMMC flash 4GB, SDIO interface SATA interface (Quad cores CPU)
RTC	Battery on the Baseboard is required
Power Requirement	+5V, 1A
Dimensions	70 x 70 mm
Board Thickness	1.2 mm ± 0.1mm
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Operation Humidity	10% - 95%, non-condensing

## I/O

Graphics	1 x 24-bit TTL signal 2 x Signal channel 24-bit LVDS 1 x HDMI 1080P
Ethernet	1 x 10/100/1000 Mbps Ethernet
Audio	Mic-in/Headphone
COM	4 x COM with TX/RX/RTS/CTS (one with 3.3V TTL level) 1 x Console port
USB	1 x USB 2.0 1 x OTG client
I <sup>2</sup> C	3 x I <sup>2</sup> C Interface
SPI	1 x SPI
CAN	2 ports as 2.0B protocol-compatible Controller Area Network (CAN) interfaces
GPIO	8 button-detect
PCIe	1 x PCIe x1

## Ordering Information

### Standard

Q7M120- DualLite-I (P/N: E38Q120100)	Qseven v2.0 module with Freescale iMX6 DualLite 800 MHz (industrial) SoC, 1GB RAM, 4GB eMMC, 1 GbE LAN, audio, and CAN
Q7M120- Quad-I (P/N: E38Q120102)	Qseven v2.0 module with Freescale iMX6 Quad 800 MHz (industrial) SoC, 1GB RAM, 4GB eMMC, 1 GbE LAN, audio, and CAN

### Optional

Q7M120-Quad-T	Qseven v2.0 module with Freescale iMX6 Quad 1 GHz (automotive) SoC, 1GB RAM, 4GB eMMC, 1 GbE LAN, audio, and CAN
Q7M120-120-EVK DualLite-I	Evaluation kit board
Q7M120-120-EVK Quad-I	Evaluation kit board
5078Q120100E	Q7M120 heatspread (-40°C to 70°C)
5078Q120200E	Heatsink (-40°C to 75°C)