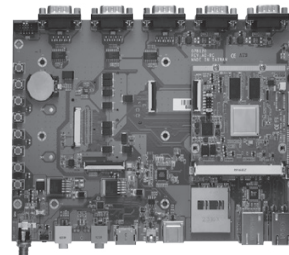
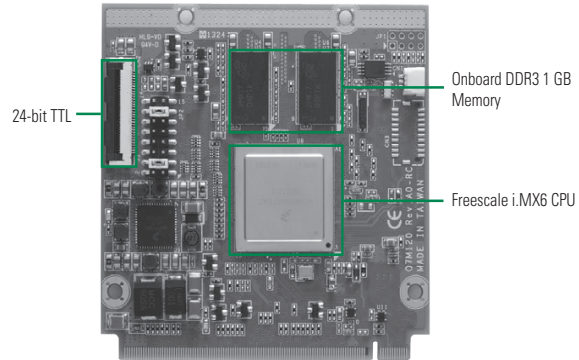


# Q7M120

Qseven v2.0 SoM with Quad/DualLite 800 MHz (Industrial) SoC, 1GB Memory, 4GB eMMC, Gigabit Ethernet, Audio and CAN

## Features

- Ultra low power consumption Cortex™-A9
- High flexibility Qseven v2.0 compliant design
- 2 CAN
- 24-bit TTL signal
- LVDS/HDMI 1080P
- 10/100/1000 Mbps Ethernet
- Linux 3.0.35/Android 4.3
- Audio



▲ Q7M120-120-EVK

## 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
Size	70 x 70 mm
Board Thickness	1.2 mm ± 0.1mm
Operating Temperature	-40°C ~ +85°C (Industrial)
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
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	Yes
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)	Q7M120 with Freescale iMX6 DualLite 800 MHz (Industrial) SoC, 1GB Memory, 4GB eMMC, 1 GbE LAN, audio, and CAN
Q7M120- Quad-I (P/N:E38Q120102)	Q7M120 with Freescale iMX6 Quad 800 MHz (Industrial) SoC, 1GB Memory, 4GB eMMC, 1 GbE LAN, audio, and CAN
Optional	
Q7M120-120-EVK DualLite-I	Evaluation kit board
Q7M120-120-EVK Quad-I	Evaluation kit board
Q7M120-Quad-T	Q7M120 with Freescale iMX6 Quad 1 GHz (Automotive) SoC, 1GB Memory, 4GB eMMC, 10/100/1000 Mbps Ethernet, audio, and CAN
P/N: 5078Q120100E	Q7M120 heatspread (-40 °C ~-70 °C)
P/N: 5078Q120200E	Heatsink (-40 °C ~-75 °C)

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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