Q7M120-120-EVK
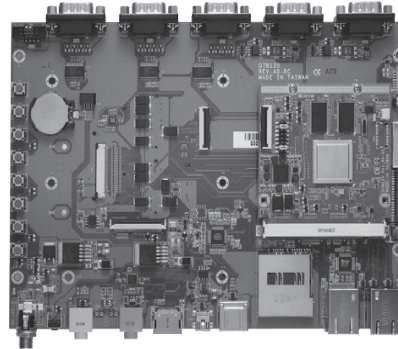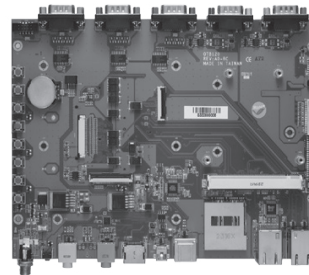
Qseven v2.0 SoM Evaluation Kit with Quad/DualLite 800 MHz (Industrial) SoC,
1GB Memory, 4GB eMMC, Gigabit Ethernet, Audio and CAN

Features

- Ultra low power consumption Cortex™-A9
- High flexibility Qseven v2.0 compliant design
- 2 CAN 2.0B
- 18/24-bit TTL LCD
- LVDS/HDMI 1080P
- 10/100/1000 Mbps Ethernet
- Linux3.0.35/Android4.3
- Audio

▲ Q7M120-120-EVK

▲ Q7B120

Core System

Processor	Freescale i.MX6 Quad/DualLite ARM Cortex™-A9 CPU 800 MHz (On Q7M120 SoM)
System Memory	Onboard DDR3-1600, up to 1GB (on Q7M120 SoM)
OS	Linux kernel 3.0.35, Android 4.3
RTC	Battery on the Baseboard is required
Power Requirement	+5V ± 5%, 5A
Size	210 x 150 mm
Board Thickness	1.6 mm ± 0.15mm
Operation Humidity	10% ~ 95%, non-condensing

I/O

Graphics	1 x 18/24-bit TTL LCD 1 x HDMI 1080P 1 x Dual channel 24-bit LVDS
Ethernet	1 x RJ-45 for 10/100 Mbps 1 x RJ-45 for 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
I²C	3 x I²C Interface
CAN	2
Keypad	8
Storage	1 x SD/MMC socket 1 x SATA connector
Touch	4-wire touch screen controller
Mini Card	2 x Full-size (with SIM)

Ordering Information

Standard

Q7M120-120-EVK DualLite-I	Q7M120-120 (DualLite) evaluation kit board
Q7M120-120-EVK Quad-I	Q7M120-120 (Quad) evaluation kit board

Optional

P/N: 5078Q120100E	Q7M120 heatspread (-40 °C ~70 °C)
P/N: 5078Q120200E	Heatsink (-40 °C ~75 °C)

Packing list

N/A	- USB OTG cable - Console port cable - Power cable - AC DC adapter 5V/5A 25W - Utility CD

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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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