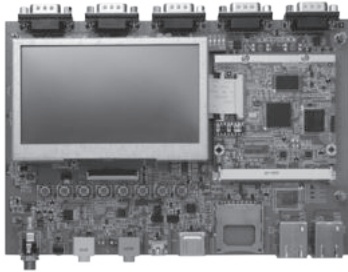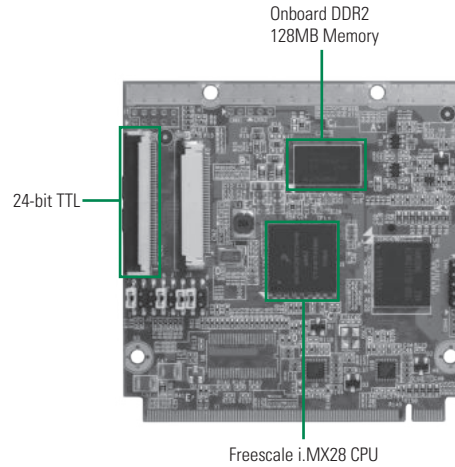# Q7M100

Qseven v1.2 SoM with i.MX287 454 MHz (Industrial) SoC, 128MB Memory,
4GB eMMC, Gigabit Ethernet, Audio and CAN

Features

- Ultra low power consumption ARM9
- High flexibility Qseven v1.2 compliant design
- 2 CANBus 2.0B compliant ports
- 24-bit TTL LCD
- Dual 10/100 Base-T Ethernet
- Audio

Onboard DDR2
128MB Memory

24-bit TTL

Freescale i.MX28 CPU

▲ Q7M100-100-EVK

Core System

CPU	Freescale iMX-28 Series SoC with 287 ARM926EJ-S CPU running @ 454MHz
System Memory	Onboard DDR2-667, up to 128MB
OS	Linux kernel 2.6.35 compliant
SSD	eMMC flash 4GB SDHC interface
RTC	Battery on the Carrier is required
Power Requirement	+5V ± 5% @ 800mA
Size	70 x 70 mm
Board Thickness	1.2 mm ± 0.1mm
Operating Temperature	-40ºC ~ 85ºC
Operation Humidity	10% ~ 95%, non-condensing

Ordering Information

Standard	
Q7M100-287	Q7M100 with Freescale iMX-287 SoC, 128MB memory, 4GB eMMC and 1 GbE LAN, audio and CAN

Optional	
Q7M100-100-EVK	Evaluation kit board

I/O

Graphics	LCD supported, up to 24-bit TTL RGB modes and 24-bit system mode
Ethernet	2 x 10/100 Mbps Ethernet
Audio	Mic-in/Line-out on carrier board
COM	4 x COM ports 3 x TX/RX/RTS/CTS (2 RS232 and 1 RS-422/485), 1 x TX/RX 3.3V TTL
USB	1 x OTG client 1 x host
I²C	2 x I²C Interface
GPIO	8 interfaces, up to 400 kbps
SPI	Yes
CAN	2 ports

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