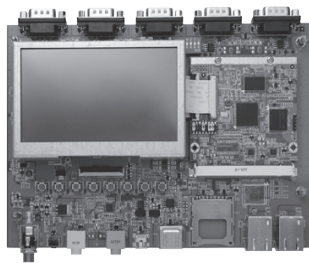


# Q7M100

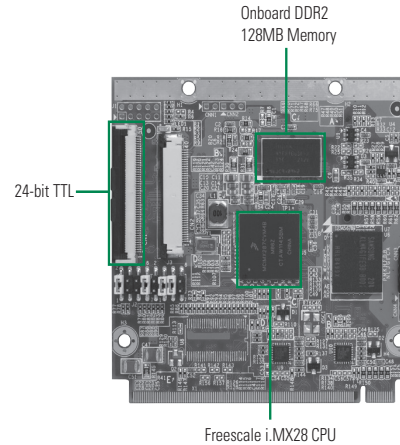
Qseven v1.2 SoM with i.MX287 454 MHz (Industrial) SoC, 128MB Memory, 4GB eMMC, Gigabit Ethernet, Audio and CAN

## 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



▲ 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	-40°C ~ 85°C
Operation Humidity	10% ~ 95%, non-condensing

### 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 RS-232 and 1 RS-422/485), 1 x TX/RX 3.3V TTL
USB	1 x OTG client 1 x host
I <sup>2</sup> C	2 x I <sup>2</sup> C Interface
GPIO	8 interfaces, up to 400 kbps
SPI	Yes
CAN	2 ports

### 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



\* All specifications and photos are subject to change without notice.



## 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.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660