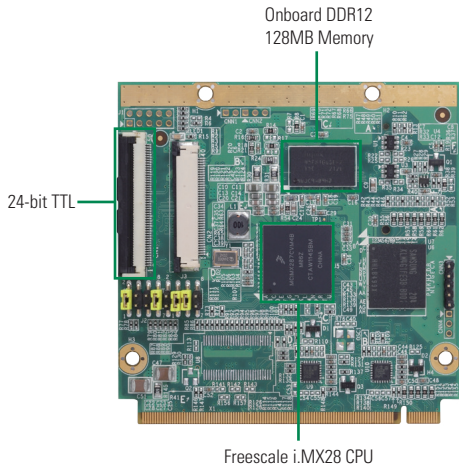


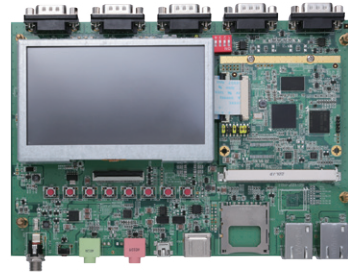
Q7M100

Freescale iMX-28 Qseven SoM



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
- IIS Audio



▲ Q7M100-100-EVK

System

CPU	Freescale iMX-28 Series SoC with 287 ARM926EJ-S CPU running @ 454MHz
System Memory	Maximum up to 128MB DDR2-667
OS	Linux kernel 2.6.35 compliant
SSD	eMMC flash 4 GB SDHC interface
RTC	Battery on the Baseboard 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 (DOTCK) modes and 24-bit system mode
Ethernet	Dual ports 10/100 Mbps Ethernet MAC integrated in iMX-28 and PHY as SMSC LAN8720A Compatible with IEEE std 802.3 Supports IEEE std 1588-compatible hardware timestamp
Audio	IIS SGT15000 Codec for Mic-in/Line-out on Baseboard
COM	4 x COM port 3 x TX/RX/RTS/CTS (2 RS232 and 1 RS-422/485), 1 x TX/RX 3.3V TTL
USB	2 USB 2.0 ports; 1 OTG client, and 1 host
I ² C	2 Master/Slave interfaces, up to 400 kbps
GPIO	8 interface, up to 400 kbps
SPI	1 channel for 2 chip select
CANBus	2 ports as 2.0B protocol-compatible Controller Area Network (CAN) interface
A/D	6 channels low-resolution A/D converter Touch screen signals (4/5-wire controller)
Keypad	8 keypad matrix with button-detect circuit

Ordering Information

Standard	
Q7M100-287	Q7M100 with Freescale iMX-287 SoC, 128MB memory, 4 GB eMMC, 10/100Mbps Ethernet, audio, CANBus
Optional	
Q7M100-100-EVK	Evaluation Kit Board