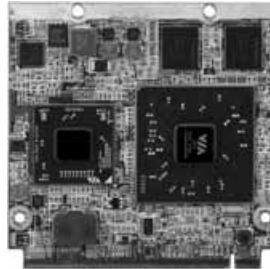## QSeven Module

NEW

VIA

QSM-8Q90

QSeven Module with Nano™ E, LVDS, USB, GigaLAN, SATA & PCIe

Features

- 1.0GHz VIA Nano™ E processor

- Supports 1GB DDR3 SDRAM

- Integrated VIA Chrome9™ HD DX9 3D/2D graphics with VC1, MPEG-2, WMV9 and H.264 decoding acceleration

- Two 1-lane PCIe expansion

- Supports two SATA ports (3Gbps)

- Display interface in 18/24-bit single-channel LVDS panel

- Supports one Gigabit Ethernet on module

- Eight USB 2.0 ports

Board Placement

Specifications

Model Name		QSM-8Q90
Core	Processor	1.0GHz VIA Nano™ E (800 MHz FSB)
	Chipset	VIA VX900 low power all-in-one system processor
	System Memory	Onboard 1GB of DDR3 800 memory, 32-bit memory data
	BIOS	AMI BIOS, SPI 4/8Mbit flash memory
	Operating System	Windows 7 and Windows XP
	Watch Dog Timer	Software programmable
	Security	Advanced Cryptography Engine supporting AES, SHA1 and SHA256
Video	Graphics Engine	Integrated VIA Chrome9™ HD DX9 2D/3D graphics processor and unified video decoding accelerator
	LVDS Interface	1 x LVDS channel supports single-channel 18-bit or 24-bit LVDS panel (on carrier board). Up to 1,366 x 768 resolution
Ethernet	Chipset	1 x RealTek RTL8111C Gigabit Ethernet controller
IO Expansion (On Carrier Board)	Audio	1 x HD audio digital interface
	USB	8 x USB 2.0 ports
	SATA	2 x SATA II ports
	Expansion Bus	1 x Low Pin Count (LPC) bus 1 x SDIO 2 x PCIe x1
Power	Input Voltage	5V in
Mechanical & Environment	Dimension	QSeven form factor. 70 mm x 70 mm
	Operating Temperature	0°C ~ 60°C
	Storage Temperature	-40°C ~ 70°C
	Operating Humidity	0% ~ 90% (relative humidity, non-condensing)

Ordering Information

Model Name	CPU Frequency	Description
QSM-8Q90	1.0GHz Nano™ E	QSeven Module with 1.0GHz Nano™ E CPU, LVDS, 8 USB 2.0, GigaLAN
QSMDB1	N/A	QSM-8Q90 Evaluation Base Board

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