

AQ7-TC

Qseven CPU Module with Onboard Intel® Atom™ E680/E660/E640/E620 Processors

Launched in Q3

Features

- Onboard Intel® Atom™ E680/E660/E640/E620 Processors
- Onboard DDR2 667/800 Memory, Max. 2GB
- Gigabit Ethernet
- Up to 24-bit Single-channel LVDS LCD, SDVO x 1
- High Definition Audio Interface
- SATA SSD (Up to 32GB, Optional) x 1, SATA 3.0Gb/s x 2, SDIO x 1
- USB2.0 x 6, USB2.0 Client x 1
- PCI-Express[x1] x 3
- LPC Bus x 1, CAN Bus x 1
- +5V Only Operation



Specifications

System	
Form Factor	Qseven
Processor	Onboard Intel® Atom™ E680/E660/E640/E620 processors
System Memory	Onboard DDR2 667/800 memory, Max. 2GB
Chipset	EG20
Ethernet	Realtek RTL8211CL, Gigabit Ethernet
BIOS	AMI BIOS, SPI type, 4MB ROM
Wake on LAN	Yes
Watchdog Timer	Generates a time-out system reset
H/W Status Monitoring	Supports power supply voltages, fan speed and temperature monitoring
Expansion Interface	4-bit SDIO PCI-Express[x1] x 3 LPC bus x 1 CAN bus x 1 SMBus x 1
Battery	Lithium battery
Power Requirement	+5V DC
Power Consumption (Typical)	—
Board Size	2.75" (L) x 2.75" (W) (70mm x 70mm): Without SSD, TF-AQ7-TC-A10 3.35" (L) x 2.75" (W) (85mm x 70mm): With SSD, TF-AQ7-TC-B10
Gross Weight	0.44 lb (0.2kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—
Display	Supports LCD/SDVO Dual Simultaneous/ Dual Independent Displays
Chipset	Intel® E6x0 integrated (x: 8/6/4/2) Integrates hardware MPEG2/H.264/WMV9/VC1 decoder
Memory	Shared system memory up to 256MB/ DVMT4.0
Resolution	Up to 1280 x 1024 @60Hz for SDVO Up to 1280 x 768 @60Hz for LCD
LCD Interface	24-bit Single-channel LVDS
SDVO	SDVO x 1
I/O	
Storage	SATA SSD on board, Max.32GB (Optional) SATA 3Gb/s x 2
Serial Port	from LPC interface
Parallel Port	from LPC interface
USB	USB2.0 x 7 (including one USB client)
PS/2 Port	from LPC interface
Digital I/O	from LPC interface
IrDA Interface	from LPC interface
Audio	High definition audio interface

Packing list

- M2.5 Screw x 4
- Product CD
- AQ7-TC

Ordering Information

- **TF-AQ7-TC-A10**
Qseven CPU Module, Intel® Atom™ E620, SDVO, DDR2 2GB, Gigabit Ethernet, SATA 3.0Gb/s, USB2.0, CAN Bus, Rev.A1.0
- **TF-AQ7-TC-A10-01**
Qseven CPU Module, Intel® Atom™ E680, SDVO, DDR2 2GB, Gigabit Ethernet, SATA 3.0Gb/s, USB2.0, CAN Bus, Rev.A1.0
- **TF-AQ7-TC-B10**
Qseven CPU Module, Intel® Atom™ E680, SDVO, DDR2 2GB, Gigabit Ethernet, 32GB SSD, SATA 3.0Gb/s, USB2.0, CAN Bus, Rev.B1.0

Optional Accessories

- **TF-ECB-930G-A10**
Qseven Carrier Board, 3.5", Dual Gigabit Ethernet, 2CH Audio, 2COM, USB, Mini Card, DC, Rev.A1.0
- **TF-PER-A095**
Passive Heatsink, for AQ7-LN/AQ7-TC, Onboard CPU
- **TF-PER-A096**
CPU Cooler, for AQ7-LN/AQ7-TC, Onboard CPU
- **TF-PER-A097**
Heat Spreader Kit, for AQ7-LN/AQ7-TC, Onboard CPU