

Energy Efficient Industrial Computer Atom E680T Model



Applications

- Production line operating information display
- Inspection, test results information collection system
- Airports flight status and flight information display
- Train/bus stations gate control system
- Road/air noise measurement system
- Temperature/voltage status monitoring
- Instruments operated in extremely high and low temperature conditions

Overview

The ETC Series Ultra-Thin, Tiny and Compact Size computer is empowered by the Intel Atom E680T 1.6 GHz processor, and features FAN less, DISK less, expanded temperature operation (-30 degrees C to +80 degrees C). The Intel Atom E680T DVI Model and Analog RGB Model offer low power consumption design and two CFast slots for improved maintenance. The optional battery module (part no. JPS-BUSTC) can be used as a counter measure against a sudden power failure.

Features

- **Intel Atom E680T**
 - Achieves low power consumption and small foot print
- **Wide Operating Temperature**
 - -30 degrees C to +80 degrees C (at boot up), +70 degrees C for continuous operation
 - Temperatures guaranteed for entire system operation; not only for processor but peripheral components
- **Operating System**
 - Windows Embedded Standard 2009
- **Speeding up & Disk Protection**
 - Windows Models utilize EWF and offer high speed operation and disk protection.
- **Embedded Intel Atom E680T**
 - Empowered by the Intel Atom E680T 1.6 Ghz
 - Long-term supply, wide operating range and higher reliability
- **I/O Connector**
 - Power control, RAS output connector is loaded
- **Zero Spindle**
 - FAN Less with proprietary designed enclosure
 - Maintenance Free with no-moving parts
 - Installed tight space with tiny and thin design
- **Industrial Grade Parts & Components**
 - Long-term stable supply parts & components
- **Video I/O Selections**
 - Digital Video I/O model & Analog RGB I/O model
- **Wide Range Power Input**
 - Supports +7 Vdc to +27 Vdc for continuous operation
- **Low Power Consumption**
 - Energy saving, low heat disipation design using Atom and unique circuit schematics
- **Optional AC/DC Adapter**
 - AC/DC adapter supports a wide temperature range from -30 degreesC to +70 degrees C
- DISK Less with CFast boot-up
- 10-year long term supply products
- Selectable for your application
- Ideal for automobile and other applications

Specifications

Model		Atom E680T DVI Model	Atom E680T Analog RGB Model
Type		ETC-B116(S)E	ETC-B216(S)E
CPU	Processor	Intel Atom E680T 1.6 GHz	
	CPU Fan	None	
Chipset		Intel EG20T	
BIOS/Loader		Phoenix SecureCore Tiano BIOS	
Main Memory		1 GB: 32-bit DDR2-SDRAM DDR2-800 [Micron]	
Graphics	Controller	Built into CPU	
	Video Memory	Shared with main memory	
	Resolutions	1920×1080 (reduced blanking), 1600×900, 1280×1024, 1280×960, 1280×768, 1024×768, 800×600, 640×480 (depending on monitor resolution) (varies depending on graphic driver resolution)	
Operating System		Windows Embedded Standard 2009 (32 bits)	
Storage	Boot Device	CFast x 1 slot (4 GB installed)	
	Auxiliary	CFast x 1 slot (empty)	
Data Space of Boot Drive		1.0 GB	
Switch		Power switch	
LED		Power indicator LED x 1, disk access LED x 1	
Interface	USB	USB Rev.2.0 compatible Series A connector x 4 The maximum supply current is 1 A per port. Total amount of all ports is 2 A.	USB Rev.2.0 compatible Series A connector x 4 The maximum supply current is 1 A per port. Total amount of all ports is 1 A.
	LAN	2 ports (RJ-45 connector), Intel WG 82574IT controller 1000BASE-T, Wake On LAN, Jumbo Frame compatible, Teaming compatible	
	Audio	Realtek ALC898, Line output x 1 (Φ 3.5 stereo mini jack) (Impedance: 100 Ω), Microphone input x 1 (Φ 3.5 stereo mini jack) (Impedance: 12 kΩ to 16 kΩ (min.))	
	Display	DVI-D x 1	Analog RGB x 1 (15 pin D-sub connector)
	External I/O connector	4-pin header connector (Power On/Off x 1, RAS output x 1)	
Dimensions [mm] (W x D x H)		167 × 109 × 29 [mm]	
Input Voltage		Input voltage rating: +7 Vdc to +27 Vdc Absolute maximum rating: +6 Vdc to +36 Vdc DC power cable attached (0.5 m, one-end cable)	
UPS		No	
Allowable Power		11.0 W (typ.)	12.0 W (typ.)
Cooling Fan		No	
Calendar Clock		Large capacity battery (typical life time: 4.5 years) BR-1/2AA (Panasonic Corporation)	
Hardware Monitoring		CPU temperature/board temperature/power supply voltage	
Watchdog Timer		Software programmable (1 to 255 seconds) Time-up notification is software selectable either reset or interruption.	
Environment Resistance		Vibration resistance: 5.0 G (max.) - Vibration frequency: 10 Hz to 150 Hz - Displacement amplitude: 0.35 mm (half amplitude) - Acceleration amplitude: 49 m/s ² (5 G) - Duration: 75 minutes Shock resistance: 100 G (max.) - Duration of activity: 6 ms Noise immunity: Static electricity: in contact: +/-6 kV, in the air: +/-8 kV radiated electromagnetic field: 10 V/m Conduction: 10 V/m FTB: signal: 1 kV, power supply: 2 kV	
Operating Conditions		Temperature: -30 degrees C to +80 degrees C (at boot up), -30 degrees C to +70 degrees C (continuous operation)	
Weight		710g	
MTBF		171583 hours	152152 hours



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