

Vehicle Mounted Industrial Computer Atom E3845 (Bay Trail) Model



Front view



Rear view

RoHS

Applications

- Driver seat display terminal (construction vehicles such as cranes and forklifts)
- Surveillance camera display terminal (outside use)
- Digital signage contents output controls (inside trains & buses)
- Vibration tests/measurements (inside trains & buses)
- Destination display control (inside trains & buses)
- Satellite broadcast van communication control

ETC-F019E

Overview

The Vehicle Mounted Industrial Computer Atom E3845 (Bay Trail) model features high-performance processing with its quad-core 1.91 GHz CPU. It runs over wide temperature range from -30 degrees C to +80 degrees C at starting, or -30 degrees C to +70 degrees C for continuous operation. CAN interface is included vehicle mounted applications.

Features

- [Intel Atom E3845 \(Bay Trail\) quad core \(1.91 GHz\)](#)
Features high-performance and wide operating temperature range.
- [CAN interface port](#)
Provides high speed CAN interface; an ideal solution to connect and control field-level devices.
- [Isolated general purpose digital input/output pins](#)
Connect easily to warning devices such as revolving warning lights and buzzers.
- [Wide range DC power input](#)
Supports wide range DC power input from +0 Vdc to +40 Vdc (maximum rating)/ from +7 Vdc to +37 Vdc (continuous operation).
- [Embedded design](#)
Can be mounted on a wall, on a bottom surface, and attached by wiring. Complying with VESA standard, the product can be mounted to the back side of a display.
- [No moving parts](#)
Without any moving parts such as a cooling fan and hard drive, the product is suitable for use in quiet environment such as hospitals and classrooms. Fanless and hard drive-less design reduce costs and burden of maintenance.
- [Quick boot](#)
Boots the operating system in about 10 seconds with write filter and Hibernate Once Resume Many when HORM function is enabled. (BIOS boot excluded)
- [Wake On LAN](#)
Can turn on the system from another computer on the same local area network.

Specifications

Type		ETC-F019E	ETC-F119E	ETC-F219E
CPU	Processor	Intel Atom Processor E3845 (BayTrail) 1.91 GHz		
	CPU Fan	No		
Chip Set		Built into processor		
Main Memory		4 GB (DDR3L)		
BIOS/Loader		Phoenix SecureCore Techology 3.0		
Calendar Clock Backup Battery		Large capacity battery (typical life time: 10 years), BR-1/2AA (Panasonic Corporation)		
OS		Windows Embedded Standard 7 (32 bits/64 bits) Windows 7 Professional for Embedded Systems (32 bits/64 bits) Interface Linux System 7 (L7) (32 bits/64 bits) Interface Linux System 7 (32 bits/64 bits) + i99-BASIC (L7B)		
Storage	Boot Device	CFast 16 GB		
	Auxiliary Device	CFast (CFast card not included)	HDD 100GB (Extended temperature)	SSD 8GB
Graphics	Controller	Built into processor		
	Resolution	2560×1600, 2560×1440, 2560×1080, 1920×1440, 1920×1200, 1920×1080, 1680×1050, 600×1200, 1440×900, 1280×1024, 1280×800, 1280×720, 1182×864, 1024×768, 800×600, 640×450		
Interfaces	Display	DisplayPort v1.1a×1		
	Audio	Realtek ALC898 Line output: stereo x 1 (stereo Φ3.5 mini jack), Microphone input x 1 (stereo Φ3.5 mini jack)		
	LAN	2 port (RJ-45 connector)		
	USB	4 ports (USB Rev.2.0 Series A connector), 1 port (USB Rev.3.0 Series A connector)		
	RS-232C	2 ports (9-pin D-sub connector), transfer rate: 115.2 kbps (max.)		
	RS-485	-		
	CAN	1 port (9-pin D-sub connector), high-speed CAN, transfer rate: 60 kbps to 1 Mbps		
	External Input/output	4-pin connector (e-CON)(power on/off x 1, RAS output x 1)		
	Digital Input/output	16-pin flat cable connector Isolated digital input x 4 (with interrupt function), Normally-open relay contact output x 4		
	Switch	Power switch, CAN termination resistor setting switch		
	RAS	Watchdog Timer	Software programmable (1 to 255 seconds) Time-up notification is software selectable either reset or interruption	
Hardware Monitoring		Board temperature/CPU temperature/ power supply voltage		
RAS Output		Output method: normally-open relay contact output x1, output conditions are software selectable from watchdog timer, board temperature, CPU temperature, or power supply voltage.		
Chassis Cooling FAN		No		
Power Supply	Input Voltage	Typical : +7 Vdc to +37 Vdc (Continuous operation) Maximum : +0 Vdc to +40 Vdc, DC cable included (0.5 m, one end cable)		
	Power Consumption	T.B.D		
	Power Supply for External Device	USB I/F: 5 V Maximum supply current: 1A per port *Total amount of all ports:1A		
Security Slot		Yes		
Dimensions (W x D x H)		210 × 150 × 29 [mm] (A5 paper size)		
Mounting Orientation		Upright, horizontal		
Weight		T.B.D		
Operating Temperature		Temperature: -30 degrees C to +70 degrees C (ETC-F119E: -15 degrees C to +60 degrees C) Humidity: 10 % to 90 % (non-condensing)		
Storage Temperature/ Humidity		Temperature: -40 degrees C to +85 degrees C Humidity: 20 % to 90 % (non-condensing)		
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		
Vibration Resistance		Vibration resistance: 5.0 G (max.) (ETC-F119E: 1 G (max.)) - Vibration frequency: 10 Hz to 150 Hz - Displacement amplitude: 0.35 mm (half amplitude) (ETC-F119E: 0.075mm (half amplitude)) - Acceleration amplitude: 49 m/s ² (5 G) (ETC-E117E: 9.8 m/s ² (1 G)) - Duration: 75 minutes		
Shock Resistance		Shock resistance: 100 G (max.) (ETC-F119E: 50 G (max.)) - Duration of activity: 6 ms (not operating)		



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