

Energy Efficient Industrial Computer Atom E3845 (Bay Trail) Model



Front view



Rear view

ETC-G019E

RoHS

Applications

- Production line operating information display
- Test Results Information Collection System
- Airports Flight Status and Flight Information Display
- Train/Bus Stations Gate Control System
- Road/Air Noise Measurement System
- Automobile Dashboard Installation (Front Access Model)

Overview

The Energy Efficient 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. The small and rugged design is suitable for wide variety of applications.

Features

- Intel Atom E3845 (Bay Trail) quad-core (1.91 GHz)
Features high-performance and wide operating temperature range from -30 degrees C to +70 degrees C.
- 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.
- Wide range DC power input
Supports wide range DC power input from +6 Vdc to +40 Vdc (maximum rating)/ from +7 Vdc to +37 Vdc (continuous operation).
- Quick boot
Boots the operating system in about 10 seconds with write filter and HORM (Hibernate Once Resume Many).
- Faster Process Speed and Disk Protection
Windows model incorporates EWF (Enhanced Write Filter) which improves disk access and disk protection. EWF can be easily configured with utilities provided by Interface Corporation.
- Wake On LAN
Can turn on the system from another computer remotely.
- Rugged design
Memory and SSD are soldered directly on the board for better anti-shock/anti-vibration.

Front Access Model

Most interfaces are located on the front panel to improve wiring maneuverability in tight spaces.




ETC-G919E

Specifications

Type	ETC-G019E		ETC-G919E	
CPU	Processor	Intel Atom Processor E3845 (BayTrail) 1.91 GHz		
	CPU Fan	No		
Chip Set	Built into processor			
Main Memory	2 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	SSD 8 GB		
	Auxiliary Device	CFast (CFast cart sold separately)		
Graphics	Controller	Built into processor		
	Resolution	2560×1600, 2560×1440, 2560×1080, 1920×1440, 1920×1200, 1920×1080, 1680×1050, 1600×1200, 1440×900, 1280×1024, 1280×800, 1280×720, 1182×864, 1024×768, 800×600, 640×480 * Maximum resolutions may vary depending on monitor's resolutions.		
Interfaces	Display	DisplayPort v1.1a×1 ¹		
	Audio	Realtek ALC898 Line output x 1 (stereo Φ3.5 mini jack), Microphone input x 1 (stereo Φ3.5 mini jack)		
	LAN	2 ports (RJ-45 connector) 1000BASE-T/100BASE-TX/10BASE-T, Wake On LAN, Jumbo Frame compatible		
	USB	2 ports (USB Rev.2.0 Series A connector), 1 port (USB Rev.3.0 Series A connector)	5 ports (USB Rev.2.0 Series A connector), 1 port (USB Rev.3.0 Series A connector)	
	RS-232C	1 port (9-pin D-sub connector), transfer rate: 115.2 kbps (max.) ²		
	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 Digital input x 4 , Normally-open relay contact output x 4	
	Switch	Power switch, write protection 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 or hardware monitoring.(Multiple coditions can be selected.)		
Chassis Cooling FAN	No			
Power Supply	Input Voltage	Typical : +7 Vdc to +37 Vdc (Continuous operation) Maximum : +0 Vdc to +40 Vdc		
	Power Consumption	6.8 W (typ.)	7.8 W (typ.)	
Security Slot	Yes			
Dimensions (W x D x H)	167 × 109 × 29 [mm]		167 × 109 × 50 [mm]	
Mounting Orientation	Upright, horizontal			
Weight	745g	1000g		
Operating Temperature	Temperature: -30 degrees C to +70 degrees C , Humidity: 10 % to 90 % (non-condensing)			
Storage Temperature/ Humidity	Temperature: -40 degrees C to +85 degrees C, Humidity: 10 % 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.) - 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	Shock resistance: 100 G (max.) - Duration of activity: 6 ms (not operating)			

¹ DisplayPort v1.1a can connect only one display.

² The RS-232C port can be replaced to CAN port. (Front access model only)



Interface Amita Solutions, Inc.

Phone: (+1) 408-626-8881

Fax: (+1) 408-599-3061

E-mail: sales@amitasol.com

Website: <http://www.interface-amita.com>