

## ECC-E011E4(W7)E

Intel Core i7 620UE ECO Class Assembly Devices PCI Express Model



RoHS

PCI Express Model	Intel Core i7 620UE	Windows 7 Professional for Embedded Systems
PCI Express (Gen2) x1 lane x 4 CFast slot x 2	Memory ECC 2 GB	DC power input range: +7 Vdc to +27 Vdc
Analog RGB x 1	LAN x 2 (1 Gbps), USB x 4, RS-232C x 1, RS-485 x 1, High-speed CAN x 1	265 (W) x 187.2 (D) x 141 (H) [mm]

### Applications

- Destination Display Control (inside trains & buses)
- Gate Board at Train Terminal
- Data acquisition and control for Specialized Industrial Machinery
- Vibration Test
- Vehicle Computer
- Station Doorway Control Computer
- Building Entrance Security Sensor & Control Computer

### Overview

The ECC-E011E4(W7)E embedded PCI Express Model is empowered by the Intel Core i7 620UE processor with ECC memory, and features four PCI Express x1 lanes for extension board installation. The ECC-E011E4(W7) includes CFast slots, the operating system can boot from a CFast card. The ECC-E011E4(W7)E has a CAN interface and can be used as an in-car system. The ECC-E011E4(W7)E does not have any moving parts such as hard disk drive or cooling fan.

### Features

- [Intel Core i7 620UE with ECC memory \(on-board 2 GB\)](#)  
Achieves high memory reliability and high computing performance.
- [Four PCI Express x1 lane](#)  
Install extension boards.
- [Four USB 2.0 ports and two Gigabit Ethernet ports](#)  
Provide bidirectional communications with field devices.
- [Digital input/output pins and audio jacks](#)  
Easily connect warning devices such as revolving warning lights and buzzers.
- [System monitoring libraries](#)  
Monitor system status including WDT, temperature, power voltage, and RAS.
- [Single-side interface connectors](#)  
All connectors are on one side for easy installation.
- [Windows 7 Professional for Embedded Systems](#)  
Makes maximum use of video input and communication functions of the product.

## Specifications

CPU	Processor	Intel Core i7 620UE
	Frequency	1.06 GHz
Type		Energy Efficient Industrial PC PCI Express Model
Chipset		Intel Mobile QM57 Chipset
BIOS/Loader		Phoenix SecureCore Tiano (TM)
Main Memory		On-board ECC 2 GB
Graphics	Controller	Included in CPU
	Video Memory	Uses the main memory
	Resolution	800 x 600 (True Color), 1024 x 768 (True Color), 1280 x 768 (True Color), 1280 x 1024 (True Color), 1400 x 1050 (True Color), 1680 x 1050 (True Color), 1600 x 1200 (True Color), 1920 x 1080 (True Color), 1920 x 1200 (True Color), 2048 x 1536 (True Color) Maximum resolutions may vary depending on monitor's resolution.
OS		Windows 7 Professional for Embedded Systems
Boot Device		CFast 16 GB
Auxiliary Device		CFast (Prepare a CFast card.)
Free Space of Boot Drive		4.2 GB
Switch		Power switch
LED		Power indicator LED x 1, disk access LED x 1, hot swap LED x 1
Interfaces	USB	USB 2.0 (Series A connector) x 4
	LAN	RJ-45 connector x 2 (1 Gbps x 2)
	Audio	Line output: stereo mini-jack (ø3.5 mm) x 1 Line input: stereo mini-jack (ø3.5 mm) x 1
	Display	Analog RGB x 1 15-pin D-sub connector
	Serial Port	1 channel 9-pin D-sub connector
	CAN	High-speed CAN x 1 * Available functions are limited to the same level as PCI-485120 (standard version). Refer to the software help for details.
	RS-485	1 channel
	Fiber Optic	SFP connector x 1
	Digital Input/output	Isolated 8-channel digital input (all interrupt), isolated 8-channel digital output
	External Input/output	4-pin connector (power on/off, normally-open relay contact RAS output x 1)
Dimensions (W x D x H)		265 x 187.2 x 141 [mm]
Expansion Slot		PCI Express (Gen2) x1 lane x 4
Input Voltage		+7 Vdc to +27 Vdc
Chassis Cooling Fan		None
Calendar Clock Backup Battery		Large capacity battery (typical life time: 10 years) BR-1/2AA (Panasonic Corporation)
Hardware Monitoring		Board temperature/temperature around memory/power supply voltage
Watchdog Timer		Software programmable (1 to 255 seconds) Time-up notification is software selectable either reset or interruption.
Bus Requirement		PCI Express Base Specification. Revision 1.1a PCI Express Base Specification. Revision 2.0
Board Dimensions		165 (D) x 106.65 (H) [mm]
Environment Conditions		Temperature: 0 degrees C to 50 degrees C Relative humidity: 20% to 90%
Weight		3.12 kg
MTBF		54828 hours



### Interface Amita Solutions, Inc.

Phone: (+1) 408-879-2387

Fax: (+1) 408-879-6205

E-mail: [sales@amitasol.com](mailto:sales@amitasol.com)

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