

ECC-E011E1(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) x4 lane x 1 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 80 (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-E011E1(W7)E embedded PCI Express Model is empowered by the Intel Core i7 620UE processor with ECC memory and features one PCI Express x4 lane for extension board installation. As the ECC-E011E1(W7)E includes CFast slots, the operating system can boot from a CFast card. The ECC-E011E1(W7)E has a CAN interface and can be used as an in-car system. The ECC-E011E1(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.
- [One PCI Express x4 lane](#)
Installs an extension board.
- [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 ECO 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	
Free Space of Boot Drive	4.2 GB	
Auxiliary Device	CFast (Prepare a CFast card.)	
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 (φ3.5 mm) x 1 Line input: stereo mini-jack (φ3.5 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 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 80 [mm]	
Expansion Slot	PCI Express (Gen2) x4 lane x 1	
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	Temperature around memory/board temperature/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	2.67 kg	
MTBF	56666 hours	



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