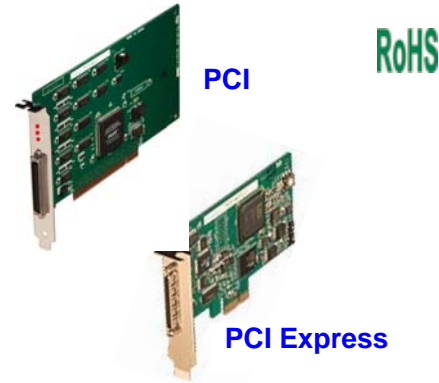


## Long-Term Supply Industrial PC

## PCI Express/PCI Combo Model



### Overview

The Long-Term Supply Industrial PC PCI Express/PCI Combo model includes PCI Express and PCI buses so that you can use PCI and PCI Express boards simultaneously. PCI Express bus makes it possible for system to transfer data much faster to other devices. The product is powered by the Intel Core i7 620UE 1.06 GHz (1st) or Intel Core i7 3517UE 1.7 GHz (3rd). Combining Dual Core and Hyper Thread Technology, the Core i7 model can operate four threads simultaneously. This feature expands fast data processing and hybrid OS applications. Turbo Boost Technology maximizes the processor power. Number of slots, CPU, memory, storage, OS, and UPS are selectable to meet your requirements. Slot-in power supply and UPS models are also available.

### Features

#### Expansion Slots

The number of slots is selectable from 4, 7, 9, and 13 slots.

Combinations of PCIe×3/PCI×1, PCIe×3/PCI×4, PCIe×3/PCI×6, and PCIe×3/PCI×10 are available.

#### Memory

1 GB, 2 GB, 4 GB\*, 8 GB\* (with ECC)

\* 4 GB and 8 GB memories are applicable only to Core i7 3rd model.

#### Rich Interface Connections

- USB Rev. 2.0 compatible    - LAN (1Gbps) x 2    - PS/2    - RS-232C    - Audio (Line output / microphone input)

#### Boot Devices

CF, CFAST, HDD

#### Operating System

- Windows 7 Professional for Embedded Systems (32bit)    - Windows XP Professional for embedded Systems (32bit)  
- Windows Embedded Standard 7 (32bit)    - Windows Embedded Standard 2009 (32bit)

#### Maintenance Free

- A 10-year life time battery is installed.  
- HDD can be replaced easily from the back panel.

#### Replacable Slot-in Power Supply

Slot-in power supply is selectable from the following four models.

- JPS-2001(+100 Vac/+200 Vac), JPS-1059 (+12 Vdc to +24 Vdc), JPS-2051 (+48 Vdc), JPS-2053 (+100 Vdc)

#### Optional Slot-in Battery Module






Keeps the system running at an unexpected sudden power loss or power fluctuation.  
Good for no-man operation, production line and other test system

#### Interface Module

- PCI Interface Modules: More than 300 kinds are available.  
- PCI Express Interface Modules: More than 70 kinds are available.

## Specifications

<b>Model</b>		Core i7 (1st)	Core i7 (3rd)
<b>CPU</b>	<b>Processor *</b>	Intel Celeron U3405 1.06GHz Intel Celeron P4505 1.86GHz Intel Core i5 520E 2.40GHz Intel Core i7 620UE 1.06GHz Intel Core i7 610E 2.53GHz	Intel Core i7 3517UE 1.7GHz
	<b>CPU Fan</b>	No	
<b>Chipset</b>		Intel Mobile QM57	Intel Mobile QM77
<b>Main Memory *</b>		1 GB, 2GB (with ECC)	1 GB, 2GB, 4GB, 8GB (with ECC)
<b>BIOS/Loader</b>		Phoenix SecureCore BIOS	Phoenix SecureCore Tiano
<b>Calendar Clock</b>		BR-1/2AA (Panasonic Corporation) (typical life time: 10 years)	
<b>OS</b>	<b>OS *</b>	- Windows 7 Professional for Embedded Systems(32bit) - Windows Embedded Standard 7 (32bit) - Windows XP Professional for Embedded Systems (32bit) - Windows Embedded Standard 2009 (32bit)	- Windows 7 Professional for Embedded Systems (32bit) - Windows Embedded Standard 7 (32bit)
	<b>Acceptable OS</b>	Android, MeeGo, INtime, RedHawk	
<b>Storage</b>		HDD: 500 GB, 1 TB CFast 4 GB, 8 GB, 16 GB CF: 4 GB, 8 GB SSD: 8 GB Select either one.	HDD: 500 GB, 1 TB CFast 4 GB, 8 GB, 16 GB Select either one.
<b>Graphic</b>	<b>Controller</b>	Built into CPU	
	<b>Resolution</b>	2048×1536, 1600×1200, 1280×1024, 1024×768, 800×600, 640×480 * Maximum resolutions may vary depending on the display specifications.	2048×1536, 1920×1080, 1600×1200, 1280×1024, 1024×768, 800×600, 640×480 * Maximum resolutions may vary depending on the display specifications.
<b>Interfaces</b>	<b>Display</b>	1 port: analog RGB (15 pin D-sub connector)	1 port: DVI-I
	<b>Audio</b>	Realtek, HD audio codec Line output x 1 (Φ3.5 stereo mini jack), Microphone input x 1 (Φ3.5 stereo mini jack) Line output: full scale output level 1.2 Vrms (typ.) Microphone input: full scale input level 1.6 Vrms (typ.)	
	<b>PS/2</b>	1 port (6-pin round mini DIN connector)	
	<b>LAN</b>	2 ports (RJ-45 connector), 1000BASE-T×2 (Intel WG82574IT, included in chipset), Wake On LAN, Jumbo Frame supported	2 ports (RJ-45 connector), LAN1: Intel WG82579LM LAN2: Intel WG82574IT 1000BASE-T, Wake On LAN, Jumbo Frame supported, teaming not supported
	<b>USB</b>	5 ports (USB Rev.2.0 Series A connector)	
	<b>RS-232C</b>	1 port (9-pin D-sub connector) 16550 compatible, transfer rate: 115.2 kbps (max.)	
	<b>External Input/Output Switch</b>	Power switch × 1, reset switch × 1	Power switch × 1, reset switch × 1, main power switch × 1
	<b>RAS</b>	<b>Watch Dog Timer</b>	Software programmable (1 to 255 seconds) Time-up notification is software selectable either reset or interruption.
	<b>Hardware Monitor</b>	CPU temperature, board temperature, temperature around memory, chassis fan stop detection	

<b>Chassis</b>	<b>Chassis Name</b>	PCI 1/PCI Express 3 unit	PCI 4/PCI Express 3 unit	PCI 10/PCI Express 3 unit	PCI 6/PCI Express 3 slot-in power supply unit	PCI 6/PCI Express 3 slot-in power supply unit
	<b>Appearance</b>					
	<b>Size</b>	Short Full	Short Full	Short Full	Short Full	Short Full
	<b>PCI Slot Count</b>	1 slot	4 slots	10 slots	6 slots	4 slots
	<b>PCI Express Slot</b>	x16 lane slot with x8 operation: 1 slot, x4 lane slot: 1 slot, x1 lane slot: 1 slot				
	<b>Bus Requirement</b>	PCI Local Bus Specification Rev2.1, 32 bits, 33 MHz, 5V signaling environment PCI Express 2.0 Base Specification				
	<b>PCI Express Transfer Rate</b>	2.5 GT/s		5 GT/s		
	<b>PCI Bus Operation Clock</b>	33 MHz				
	<b>Applicable Board</b>	Short size unit: 174.63(D) x 122(H) [mm] * board size (short size) Full size unit: 312(D) x 122(H) [mm] * board size (full size)				
	<b>Chassis Fan</b>	Yes				
<b>Power Supply</b>	<b>Input Voltage</b>	Rating: +12 Vdc to +24 Vdc Range: +7 Vdc to +27 Vdc	100 Vac/240 Vac (50Hz/60Hz)		The input voltage depends on the slot-in power module: 100 vac/200 V, 12 Vac to 24 Vac, +48 Vdc, +100 Vdc,	
	<b>Power Supply type (allowable power)</b>	DC power input (80 W)	ATX power supply (220 W, 400W)*		Slot-in power supply module (short: 300 W) Full: 200 W)*	Slot-in power supply module (300 W)
	<b>Power Supply of External Device</b>	USB I/F: 5V The maximum power supply current per port is 1 A				
<b>Power Consumption</b>		T.B.D	T.B.D	T.B.D	T.B.D	T.B.D
<b>Battery Module</b>		None			JPS-BU01 (option)	JPS-BU01
<b>Dimensions (W x D x H [mm])</b>		Short size: 151x235x155 Full size: 151x350x155	Short size: 304x285x155 Full size: 304x370x155	Short size: 430x285x155 Full size: 430x370x155		
<b>Weight</b>		T.B.D	T.B.D	T.B.D	T.B.D	T.B.D
<b>Operating Temperature Humidity</b>		Temperature: 0 degrees C to 50 degrees C (HDD: 5 degrees C to 50 degrees C) Humidity: 20 % to 90 % (non condensing)				
<b>Storage Temperature Humidity</b>		Temperature: -40 degrees C to +80 degrees C Relative humidity: 10% to 90% (non-condensing)				
<b>Anti Noise</b>	<b>Line Noise</b>	1 kVP-P 50ns to 1µs pulse				
	<b>Electrostatic Tolerance</b>	Electrostatic discharge: contact discharge: +/-6 kV, air discharge: +/-8 kV, radiated electromagnetic field: 10 V/m Conduction: 10 V/m Surge: 2 kV (between line 1kV) FTB: signal: 1 kV, power supply: 2 kV				
<b>Environment Resistance</b>		Vibration resistance: 1.0 G (max.) - Vibration frequency: 10 Hz to 150 Hz - Displacement amplitude: 0.75 mm (half amplitude) - Acceleration amplitude: 9.8 m/s <sup>2</sup> (1 G) - Duration: 75 minutes Shock resistance: 15 G (max.) - Duration of activity: 11 ms (not operating)				



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