

Long-Term Supply Industrial PC

Core i7 Model



RoHS

Applications

- Best solution to replace PC with PCI bus
- Long term supply and service make easy transition
- More than 300 different PCI interface modules can be used
- Suitable for applications such as measurements, control, inspection, data logger and others
- Digital I/O, Analog I/O, Communication, Counter, Motion Image Detector, GP-IB are just a few example of modules that can be used

Overview

The Long-Term Supply industrial PC Core i7 Model 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.

Features

- **High Speed and Reliability**
DDR3 SDRAM (ECC) achieves high-speed data transfer and system reliability.
- **Rich Interface Connections**
 - USB Rev. 2.0 compatible
 - LAN (1Gbps) x 2
 - PS/2
 - RS-232C
 - Audio (Line output / microphone input)
- **Wide Selections**
 - PCI expansion slot count is selectable from 4, 7, and 13 slots.
 - Full size and short size are available.
- **Boot Devices**
CF, CFast, HDD
- **Operating System**
 - Windows Embedded Standard 7 (32-bit)
 - Windows 7 Professional for Embedded Systems (32-bit)
 - Windows Embedded Standard 2009 (32-bit)
 - Windows XP Professional (32-bit)
- **Maintenance Free**
 - A 10-year life time battery is installed.
 - HDD can be replaced easily from the back panel.
- **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

Specifications

| | | | |
|------------------------------------|--|--|---|
| CPU | Processor | Intel Core i7 620UE 1.06 GHz (1 st) | Intel Core i73517UE 1.7 GHz (3 rd) |
| | CPU Fan | No | |
| Chipset | Intel Mobile QM57 | | Intel Mobile QM77 |
| Main Memory | 1 GB, 2 GB (with ECC) | | 2 GB, 4 GB, 8 GB (with ECC) |
| BIOS/Loader | Phoenix SecureCore BIOS | | Phoenix SecureCore Tiano |
| Calendar Clock | BR-1/2AA (Panasonic Corporation) (typical life time: 10 years) | | |
| OS | Windows Embedded Standard 7 (32-bit) | | Windows 7 Professional for Embedded Systems (32-bit) |
| | Windows 7 Professional for Embedded Systems (32-bit) | | Windows Embedded Standard 2009 (32-bit) |
| | Windows Embedded Standard 2009 (32-bit) | | Windows XP Professional (32-bit) |
| | Windows XP Professional (32-bit) | | |
| Storage | Boot Device | SATA HDD, CF, CFast (Select either one.) | SATA HDD, CFast (Select either one.) |
| Graphic | Controller | Built into chipset | |
| | Resolution | 2048×1536, 1600×1200, 1280×1024, 1024×768, 800×600, 640×480 * Maximum resolutions may vary depending on the operating system or graphic driver. | |
| Interfaces | Display | 1 port (15 pin D-sub connector): analog RGB | 1 port: DVI-I |
| | Audio | 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.) | |
| | PS/2 | 1 port (6-pin round DIN connector) | |
| | LAN | 2 ports (RJ-45 connector), 1000BASE-Tx2 (Intel WG82574IT, included in chipset), Wake On LAN, Jumbo Frame supported | 2 ports (RJ-45 connector), LAN1: WG82579LM, LAN2: WG82574IT 1000BASE-T, Wake On LAN, Jumbo Frame supported, teaming not supported |
| | USB | 5 ports (USB Rev.2.0 Series A connector) | |
| | RS-232C | 1 port (9-pin D-sub connector) 16550 compatible, transfer rate: 115.2 kbps (max.) | |
| | Switch | Power switch x 1, reset switch x 1 | Power switch x 1 |
| | RAS | Watch Dog Timer | Software programmable (1 to 255 seconds) Time-up notification is software selectable either reset or interruption. |
| Hardware Monitor | | CPU temperature, board temperature, temperature around memory | |
| Expansion Slot | Slot Count | 4, 7, 13 slots (1, 2, 3 slots can be customized) | 4, 7, 9, 13 slots (1, 2, 3 slots can be customized) |
| | Bus Requirement | PCI Local Bus Specification Rev2.1, 32-bit, 33 MHz, +5 V signaling environment | |
| | Interrupt level | INTA through INTD | |
| | Bus Clock | 33 MHz | |
| | Module Size | 174.63 (D) x 122 (H) [mm] | |
| Power Capacity | 4 slots: 50 W | 7, 13 slots: 180 W | 4 slots: 50 W 7, 9 13 slots: 180 W |
| | Chassis Fan | | |
| Input Voltage | | | 4 slots: 100 Vac (50 Hz/60 Hz) 7, 13 slots: 100 Vac to 240 Vac (50Hz/60Hz) |
| Power Consumption | | | 4 slots: 39.2 W 7 slots: 43.8 W 4 slots: 39.2 W 7, 9 slots: 43.8 W |
| Dimensions (W x D x H [mm]) | | | [Short size] [Full size] |
| 4 slots: 151(W) x 235(D) x 155(H) | | | 4 slots: 151(W) x 350(D) x 155(H) |
| 7 slots: 304(W) x 285(D) x 155(H) | | | 7 slots: 304(W) x 370(D) x 155(H) |
| 9 slots: 430(W) x 285(D) x 155(H) | | | 13 slots: 430(W) x 370(D) x 155(H) |
| 13 slots: 430(W) x 285(D) x 155(H) | | | |
| Standard | | | RoHS |
| Operating Conditions | | | Temperature: 0 degrees C to 50 degrees C Humidity: 20% to 90% (non condensing) (AC adapter: 0 degrees C to 40 degrees C, HDD: 5 degrees C to 50 degrees C) |
| Environment Resistance | | | Vibration resistance: 1.0 G (max.) - Vibration frequency: 10 Hz to 150 Hz - Displacement amplitude 0.075 mm (half amplitude) - Acceleration amplitude 9.8 m/s ² (1 G) - Duration 75 minutes Shock resistance: 15 G (max.) - Duration of activity: 11 ms (not operating) Noise immunity: - Static electricity: in contact: +/-6 kV, in the air: +/-8 kV - Radiated electromagnetic field: 10 V/m - Conduction: 10 V/m, - Surge: 2 kV (line to line 1 kV) - FTB: signal: 1 kV, power supply: 2 kV |



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