

Long-Term Supply Industrial PC

Atom N2800 Model

RoHS



**Best solution
to replace PC with PCI bus**

Overview

The Long-Term Supply Industrial PC Atom N2800 Model, powered by the Intel N2800 1.86 GHz, features low power consumption and high cost performance. With its vibration-proof and shock-proof body, the Long-Term Supply Industrial PC can run 24/7 even in a harsh environment. The expansion slot count is selectable from 4, 7 and 13 slots for PCI full and short sizes. More than 300 different PCI boards are available for use in the product, and that is suitable for applications such as measurement, control, inspection, data logger so on.

Features

Rich Interface Connections

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

Boot Devices

- SATA HDD
- SSD
- CFast

Operating System

- Windows 7(32bit)
- Windows Embedded Standard 7 (32bit)

Quiet Operation

- No cooling fan for CPU
- Fanless chassis is selectable

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 Atom Processor N2800 1.86 GHz
	CPU Fan	No
Chip Set		Intel NM10
Main Memory		2 GB (DDR3, onboard memory)
BIOS/Loader		Phoenix SecureCore BIOS
Calendar Clock		BR-1/2AA (Panasonic Corporation) (typical life time: 10 years)
OS		Windows 7(32bit)
		Windows Embedded Standard 7(32bit)
Storage	Boot Device	CFast, SATA HDD, SSD (Select either one.)
	Auxiliary Device	CFast (Applicable only when the boot device is CFast.)
Graphic	Controller	Built into CPU
	Resolution	1400×1050, 1280×1024, 1280×960, 1280×768, 1280×720, 1280×600, 1024×768, 800×600, 640×480 * Maximum resolutions may vary depending on the operating system or graphic driver.
Interfaces	Display	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 mini DIN connector)
	LAN	2 ports (RJ-45 connector), 1000BASE-T×2 (Intel WG82574IT), Wake On LAN
	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.)
	External Input/Output	-
	Switch	Power switch x 1, reset 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, power supply voltage
Expansion Slot	Slot Count	4, 7, 13 slots (1, 2, 3 slots can be customized)
	Bus Requirement	PCI Local Bus Specification Rev2.1 (+5 V)
	Interrupt level	INTA through INTD
	Bus Clock	33 MHz
	Module Size [mm]	174.63 (D) x 122 (H) (short size) 312 (D) x 122 (H) (full size)
Power Capacity	4 slots: 50 W 7, 13 slots: 180W	
Chassis Fan		Yes (Fanless type is also available.)
Input Voltage		100 Vac
Dimensions (W x D x H [mm])		[Short size] [Full size] 4 slots: 151(W) × 235(D) × 155(H) 4 slots: 151(W) × 350(D) × 155 (H) 7 slots: 304(W) × 285(D) × 155(H) 7 slots: 304(W) × 370(D) × 155 (H) 13 slots: 430(W) × 285(D) × 155 (H) 13 slots: 430(W) × 370(D) × 155 (H)
Operating Conditions		Temperature: 0 degrees C to 50 degrees C (AC adapter: 0 degrees C to 40 degrees C, HDD: 5 degrees C to 50 degrees C Humidity: 20 % to 90 % (non condensing)
Environment Resistance		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 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 1kV) - FTB: signal: 1 kV, power supply: 2 kV



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