

ThinMini-ITX Form Factor
Intel Bay Trail

PD10BI MT



Thin Mini-ITX



MiniCard Support



USB 3.0



DC-in 8v-19v



DN2800MT
Transition

Features

Support Intel Bay Trail J1900 Quad core processor

Intel HD graphics and DirectX 11 support

Dual channel DDR3L with two connectors for
MAX. 8GB memory

Dual independent display from HD-Out, VGA, and
Embedded Display-Port* / LVDS connectivity

Features high speed Gigabit Ethernet connection

Features 2 SATA 3 Gb/s

Two High Speed USB 3.0 ports support

Five USB 2.0 ports support

One PCIe connector for the future Add-in card

Two PCI Express Mini Card connector for expansion card

8 V to 19 V wide-range voltage input via back-panel
DC jack or internal power connector



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Item	Spec	
Form Factor	ThinMini-ITX, 6.7" x 6.7" (170mm x 170mm)	
Processor Chipset	Intel Bay Trail J1900 Processor with integrated graphics	
Main Memory	• Support for DDR3L 1866 MHz SO-DIMMs	
	• Support for up to 8GB of system memory	
Audio Controller	Realtek* ALC888S audio codec	2
Expansion Capability	• PCI Express 1.0a x 1 add-in card connector	1
	Option: PCI Express 1.0a x 4 add-in card connector by 2 lanes	
	• PCI Express Full-/Half-Mini Card slot (PCIe / SATA / USB)	1
	• PCI Express Half-Mini Card slot (PCIe / USB)	1
External I/O	• DC-in 8-19V (2.5 mm/ID, 5.5 mm/OD)	1
	• HDMI	1
	• VGA	1
	• line-out	1
	• Line-in	1
	• USB 3.0 back panel connectors (blue)	2
	• USB 2.0 high-current / fast-charging ports (Yellow)	2
	• RJ45	1
	• LVDS Connector (40Pin)	1
	• eDP Connector (40Pin)	1
	• Stereo speaker header	1
	• S/PDIF header	1
Internal I/O	• DMIC	1
	• HD Audio/AC' 97 headphone / mic	1
	• USB 2.0 front panel ports	5
	• SATA 3.0 Gb/s	2
	• "SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI Express Full-/Half-Mini Card slot)"	1
	• Serial port header	2
	• Parallel port header	1
	• 3-pin system fan header with speed control	1
• 2 pin power connector	1	
S I/O Controller	NCT6683D	
LAN Support	Realtek RTL8111G-CG Gigabit (10/100/1000 Mb/s) Ethernet LAN controller	
BIOS	• BIOS resident in a Serial Peripheral Interface (SPI) Flash device	
	• Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS)	
Hardware Management	Nuvoton NCT6683D based subsystem, including:	
	• Voltage sense to detect out of range power supply voltages	
Environment	• Thermal sense to detect out of range thermal values	
	• Operating Temperature: 0°C to +60 °C	
Safety	• Storage Temperature: -20°C to +70°C	
	• CE	
Operating System	• FCC	
	• UL	
Operating System	Windows 7 32bit / 64bit, Windows 8.1 64bit, Windows 10 64bit, Linux (support by request)	

Packing List

- PH10BI Mainboard
- 45CM SATA Power Cable
- Driver CD
- 50CM SATA Cable
- 2*IO Shield (Half and Full height)
- Quick Guide