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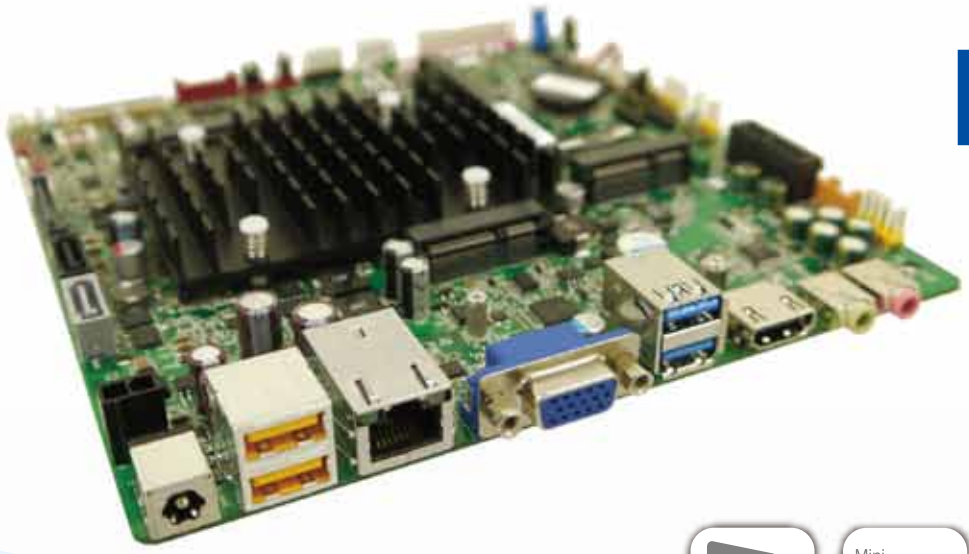
ThinMini-ITX Form Factor
Intel Bay Trail

PD10BI MT



Thin Mini-ITX | MiniCard Support X2 | USB3.0 X2 | DC-in 8v-19v | DN2800MT Transition

Features

- Support Intel Bay Trail J1900 Quad core processor
- Intel HD graphics and DriectX 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 3Gb/s
- Two Hi-Speed USB3.0 ports support
- Five USB2.0 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	Low-profile Mini-ITX (20 millimeters [0.79 inches] x 170.18 millimeters [6.7 inches] x 170.18 millimeters [6.7 inches])	
Processor Chipset	Intel Bay Trail J1900 Processor with integrated graphics (*Remark: Compatible with J1800 and J2900)	
Main Memory	• Support for dual channel DDR3L 1333/1600 (runs at 1333 MHz) SO-DIMMs	
	• Support for up to 8 GB of system memory on a single SO-DIMM (or 4 GB each by 2 SO-DIMM)	
	• 204-pin DDR3L SO-DIMM	2
Graphics	• Integrated graphics:	
	- Digital displays (HD-Out)	
	- Analog displays (VGA)	
	- Internal flat panel displays:	
	▪ LVDS	
	▪ Embedded DisplayPort* eDP*	
	• External graphics support via a PCI Express 1.0a x1 graphics add-in card connector	
Audio	• 2 + 2 Channel High Definition Audio (HD Audio) using a Realtek* ALC888S audio codec supporting:	
	- Analog stereo line-out (back panel jack)	
	- In-chassis stereo speakers support (3 W/3 Ω via an internal header)	
	- S/PDIF digital audio output (internal header)	
	- DMIC digital microphone input (internal header)	
	- Analog line-in (back panel jack)	
	- Front panel HD Audio/AC'97 headphones/mic support (internal header)	
	• 8-channel (7.1) HD Audio via the HD-Out interface	
Expansion Capability	• PCI Express 1.0a x1 add-in card connector Option: PCI Express 1.0a x4 add-in card connector by 2 lanes	1
	• PCI Express Full-/Half-Mini Card slot	1
	• PCI Express Half-Mini Card slot	1
Peripheral Interfaces	• USB 2.0 front panel ports	5
	• USB 3.0 back panel connectors (blue)	2
	• USB 2.0 high-current/fast-charging ports (Yellow)	2
	• 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
Legacy I/O	• Legacy I/O Controller (NCT6683D) that provides:	
	- Hardware management support	
	- Serial ports onboard headers	2
	- Parallel port via an onboard header	1
LAN Support	Realtek RTL8111G-CG Gigabit (10/100/1000 Mb/s) Ethernet LAN controller including an RJ-45 back panel connector with integrated status LEDs	
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	
	• Thermal sense to detect out of range thermal values	
	• 3-pin system fan header with speed control	
Power Requirement	• DC connectivity via back-panel DC jack (2.5mm/ ID, 5.5mm/ OD)	
	• Internal 2 pin power connector	
Environment	• Operating Temperature: 0 °C to +60 °C	
	• Storage Temperature: -20°C to +70°C	
Safety	• CE	
	• FCC	
	• UL	

Packing List

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