

ThinMini-ITX Form Factor Intel Bay Trail

PD10BI MT







Support Intel Bay Trail Dual core/Quad core processor

Intel HD graphics and DriectX 11 support

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

Dual independent display from HDMI*, 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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PD10BI



LAN Support 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) 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 • DC connectivity via back-panel DC jack (2.5mm/ ID, 5.5mm/ OD) • Internal 2 pin power connector • Operating Temperature: 0 °C to +50 °C • Storage Temperature: -20°C to +70°C • CE • FCC	ltem	Spec		
Processol Chipset graphics and memory controller • Support for up to 8 GB of system memory on a single SO-DIMM (or 4 GB each by 2 SO-DIMM) • 204-phin DDR3L SO-DIMM • 204-phin DDR3L SO-DIMM 2 • Integrated graphics: • Digital displays (High Definition Multimedia Interface(HDMI)) • Analog displays (VGA) • Internal flat panel displays: • Internal flat panel displays: • VOOS • External graphics support Via a PCI Express 1.0a x1 graphics add-in card connector • 2 + 2 Channel High Definition Audio (HD Audio) using a Reattek* ALC8885 audio codec supporting: • Analog stereo line-out (back panel jack) • In-chasis stereo speakers support 3(W3 0 Via an internal header) • S-PDIF digital addio output (Internal header) • Analog stereo line-out (back panel jack) • Front panel HD Audio/AC 97 headphones/mic support (Internal header) • Analog stereo line-out (back panel jack) • Front panel HD Audio/AC 97 headphones/mic support (Internal header) • Analog stereo line-out dist HDMI interface • PCI Express 1.0a x1 add-in card connector • DE Charge stalt-Mini Card slot 1 • PCI Express Half-Mini Card slot 1 • PCI Express Full-Half-Mini Card slot 1 • VSB 2.0 forth panel ports 5	Form Factor	[6.7 inches] x 170.18 millimeters [6.7 inches])		
Main Memory • Support for up to 8 GB of system memory on a single SO-DIMM (or 4 GB each by 2 SO-DIMM) • 204-pin DDBL SO-DIMM 2 • Integrated graphics: • Digital displays (High Definition Multimedia Interface(HDMI)) • Analog displays (VGA) • Internal flat panel displays: • IVDS • Internal flat panel displays: • IVDS • Enbedded DisplayPort* eDP* • External graphics support 1 was PCI Express 1.0a x1 graphics add-in card connector • 2 + 2 Channel High Definition Audio (HD Audio) using a Realtek* ALC8885 audio codec supporting: • Analog disteres outpers support 1 3W/3 Q via an internal header) • In-chasis steres opakers support 1 3W/3 Q via an internal header) • Analog line-in (back panel jack) • Front panel HD Audio/AC 97 headphones/mic support (internal header) • Front panel HD Audio/AC 97 headphones/mic support (internal header) • PCI Express 1.0a x1 add-in card connector by 2 lanes • PCI Express Half-Mini Card slot 1 • VBS 2.0 front panel ports 5 • USB 2.0 bigh-current/fast-charging ports (Yellow) 2 • SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI Express Full-Half-Mini Card slot 1 • USB 2.0 ligh-current/fast-charging ports (Yellow) 2 • Legacy I//O •	Processor Chipset	graphics and memory controller		
Intergated graphics: Digital displays (High Definition Multimedia Interface(HDMI)) Analog displays (VGA) Internal flat panel displayse: IVDS Internal flat panel displayse: IVDS Internal graphics support * DP* External graphics support * DP* External graphics support * DP* Incheases support (MV3 D Via a NCI Express 1.0a x1 graphics add-in card connector 2 + 2 Channel High Definition Audio (HD Audio) using a Realtek* ALC888S audio codec supporting: Analog stereo line-out (back panel jack) In-chasis stereo speakers support (3W/3 D Via an internal header) -Analog line-in (back panel jack) -In-chasis stereo speakers support (3W/3 D Via an internal header) -Analog line-in (back panel jack) -Front panel HD Audio/AC'97 headphones/mic support (internal header) -Analog line-in (back panel jack) -Front panel HD Audio/AC'97 headphones/mic support (internal header) -Analog line-in (back panel jack) -Front panel HD Audio/AC'97 headphones/mic support (internal header) -Analog line-in (back panel jack) -Fort panel HD Audio/AC'97 headphones/mic support (internal header) -Analog line-in (back panel jack) -Fort panel HD Audio/AC'97 headphones/mic support (internal header) -Analog line-in (back panel jack) - Fort panel Ports - B+channel - POIE Express 1.0a x1 ad-in card connector Option: PCI Express 1.0a x1 ad-in card connector by 2 lanes - USB 2.0 fort panel ports - Stat 3.0 Cb/s - Hardware management support - Hardware management support - Berial port via an onboard header - Parallel port via an onboard header - Parallel port via an onboard header - Parallel port via an onboard header	Main Memory	• Support for up to 8 GB of system memory on a single SO-DIMM (or 4 GB each by 2 SO-DIMM)		
Audio 2 + 2 Channel High Definition Audio (HD Audio) using a Realtek* ALC888S audio codec supporting: 	Graphics	 Integrated graphics: Digital displays (High Definition Multimedia Interface(HDMI)) Analog displays (VGA) Internal flat panel displays: LVDS Embedded DisplayPort* eDP*		
Expansion CapabilityOption: PCI Express 1.0a x4 add-in card connector by 2 lanes1• PCI Express Full-/Half-Mini Card slot1• PCI Express Full-/Half-Mini Card slot1• USB 2.0 from panel ports5• USB 3.0 back panel connectors (blue)2• USB 2.0 high-current/fast-charging ports (Yellow)2• SATA 3.0 Cb/s2• SATA 3.0 Cb/s port (multiplexed with an mSATA port, routed to the PCI Express Full-/Half-Mini Card slot)1Legacy I/O• Legacy I/O Controller (NCT6683D) that provides: • Parallel port via an onboard header2• Parallel port via an onboard header1Realtek RTL8111G-CG Gigabit (10/100/1000 Mb/s) Ethernet LAN controller including an RJ-45 back panel connector with integrated status LEDs9 BIOS resident in a Serial Peripheral Interface (SPI) Flash device • Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS) 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 • DC connectivity via back-panel DC jack (2.5mm / ID, 5.5mm/ OD) • Internal 2 pin power connector • Operating Temperature: 0 °C to +50 °C • Storage Temperature: -20°C to +70°C• CE • Safety• FCC	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) 		
Peripheral Interfaces 5 USB 2.0 font panel ports 5 USB 2.0 high-current/fast-charging ports (Yellow) 2 USB 2.0 high-current/fast-charging ports (Yellow) 2 USB 2.0 high-current/fast-charging ports (Yellow) 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 Realtek RTL8111G-CG Gigabit (10/100/1000 Mb/s) Ethernet LAN controller including an RJ-45 back panel connector with integrated status LEDs 8 BIOS • BIOS resident in a Serial Peripheral Interface (SPI) Flash device 5 Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS) Nuvoton NCT6683D based subsystem, including: Voltage sense to detect out of range power supply voltages • Thermal sense to detect out of range power supply voltages • Thermal sense to detect out of range power supply voltages • DC connectivity via back-panel DC jack (2.5mm/ ID, 5.5mm/ OD) • Deconnectivity via back-panel DC jack (2.5mm/ ID, 5.5mm/ OD) • Operating Temperature: -20°C to +50 °C • Storage Temperature: -20°C to +50 °C • Storage Temperature: -20°C to +70°C • CE • CE <td>Expansion Capability</td> <td> Option: PCI Express 1.0a x4 add-in card connector by 2 lanes PCI Express Full-/Half-Mini Card slot </td> <td>1</td>	Expansion Capability	 Option: PCI Express 1.0a x4 add-in card connector by 2 lanes PCI Express Full-/Half-Mini Card slot 	1	
Legacy I/O Legacy I/O Hardware management support Serial ports onboard headers Parallel port via an onboard header 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) 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 DC connectivity via back-panel DC jack (2.5mm/ ID, 5.5mm/ OD) Internal 2 pin power connector Operating Temperature: 0 °C to +50 °C Storage Temperature: -20°C to +70°C CE FCC	Peripheral Interfaces	 USB 2.0 front panel ports USB 3.0 back panel connectors (blue) USB 2.0 high-current/fast-charging ports (Yellow) SATA 3.0 Gb/s SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI 	2 2 2	
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BIOS • Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS) Hardware Management • Voltage sense to detect out of range power supply voltages • Voltage sense to detect out of range thermal values • Voltage sense to detect out of range thermal values • Operating Temperature: 0 °C to +50 °C • Operating Temperature: -20°C to +70°C • CE • FCC				
Hardware Management • Thermal sense to detect out of range thermal values • Thermal sense to detect out of range thermal values • 3-pin system fan header with speed control • DC connectivity via back-panel DC jack (2.5mm/ ID, 5.5mm/ OD) • Internal 2 pin power connector • Operating Temperature: 0 °C to +50 °C • Storage Temperature: -20°C to +70°C • CE • FCC	BIOS	• Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS) Nuvoton NCT6683D based subsystem, including:		
Power Requirement • Internal 2 pin power connector Environment • Operating Temperature: 0 °C to +50 °C • Storage Temperature: -20°C to +70°C • CE • FCC	Thermal sense to detect out of range thermal values			
Storage Temperature: -20°C to +70°C CE Safety FCC	Power Requirement	Internal 2 pin power connector		
Safety • FCC	Environment	• Storage Temperature: -20°C to +70°C		
	Safety			