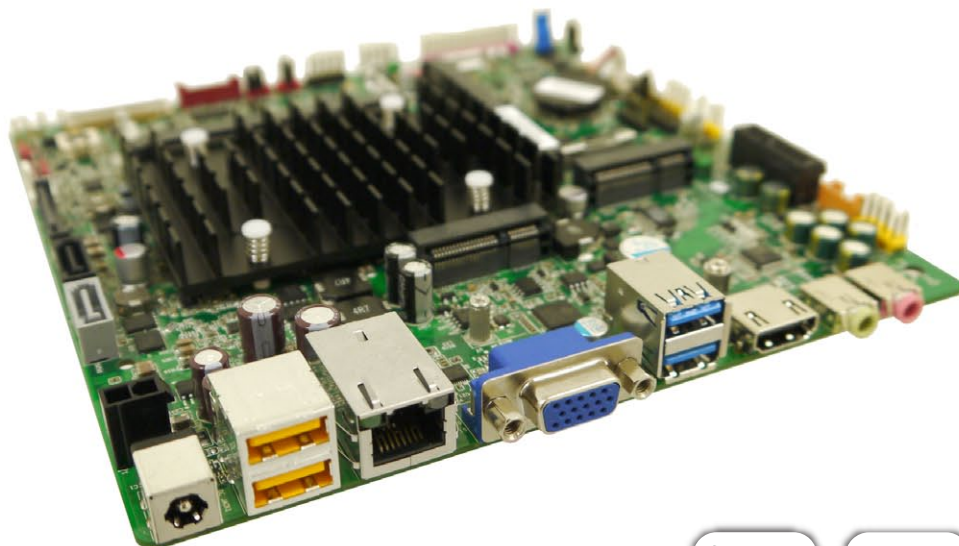




MITAC INTERNATIONAL CORP.

ThinMini-ITX Form Factor  
Intel Bay Trail

# PD10BI MT



Thin Mini-ITX



MiniCard Support



USB3.0



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 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



[www.mitac.com](http://www.mitac.com)

## Sales Contact

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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	<ul style="list-style-type: none"> <li>Support for dual channel DDR3L 1066/1333 SO-DIMMs</li> <li>Support for up to 8 GB of system memory on a single SO-DIMM (or 4 GB each by 2 SO-DIMM)</li> <li>204-pin DDR3L SO-DIMM</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>Integrated graphics: <ul style="list-style-type: none"> <li>Digital displays (High Definition Multimedia Interface(HDMI))</li> <li>Analog displays (VGA)</li> <li>Internal flat panel displays: <ul style="list-style-type: none"> <li>LVDS</li> <li>Embedded DisplayPort* eDP*</li> </ul> </li> </ul> </li> <li>External graphics support via a PCI Express 1.0a x1 graphics add-in card connector</li> </ul>
Audio	<ul style="list-style-type: none"> <li>2 + 2 Channel High Definition Audio ( HD Audio) using a Realtek* ALC888S audio codec supporting: <ul style="list-style-type: none"> <li>Analog stereo line-out (back panel jack)</li> <li>In-chassis stereo speakers support (3 W/3 Ω via an internal header)</li> <li>S/PDIF digital audio output (internal header)</li> <li>DMIC digital microphone input (internal header)</li> <li>Analog line-in (back panel jack)</li> <li>Front panel HD Audio/AC'97 headphones/mic support (internal header)</li> </ul> </li> <li>8-channel (7.1) HD Audio via the HDMI interface</li> </ul>
Expansion Capability	<ul style="list-style-type: none"> <li>PCI Express 1.0a x1 add-in card connector</li> <li>Option: PCI Express 1.0a x4 add-in card connector by 2 lanes</li> <li>PCI Express Full-/Half-Mini Card slot</li> <li>PCI Express Half-Mini Card slot</li> <li>USB 2.0 front panel ports</li> <li>USB 3.0 back panel connectors (blue)</li> <li>USB 2.0 high-current/fast-charging ports (Yellow)</li> <li>SATA 3.0 Gb/s</li> <li>SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI Express Full-/Half-Mini Card slot)</li> <li>Legacy I/O Controller (NCT6683D) that provides: <ul style="list-style-type: none"> <li>Hardware management support</li> <li>Serial ports onboard headers</li> <li>Parallel port via an onboard header</li> </ul> </li> </ul>
Peripheral Interfaces	<ul style="list-style-type: none"> <li>8-channel (7.1) HD Audio via the HDMI interface</li> <li>PCI Express 1.0a x1 add-in card connector</li> <li>Option: PCI Express 1.0a x4 add-in card connector by 2 lanes</li> <li>PCI Express Full-/Half-Mini Card slot</li> <li>PCI Express Half-Mini Card slot</li> <li>USB 2.0 front panel ports</li> <li>USB 3.0 back panel connectors (blue)</li> <li>USB 2.0 high-current/fast-charging ports (Yellow)</li> <li>SATA 3.0 Gb/s</li> <li>SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI Express Full-/Half-Mini Card slot)</li> <li>Legacy I/O Controller (NCT6683D) that provides: <ul style="list-style-type: none"> <li>Hardware management support</li> <li>Serial ports onboard headers</li> <li>Parallel port via an onboard header</li> </ul> </li> </ul>
Legacy I/O	<ul style="list-style-type: none"> <li>Legacy I/O Controller (NCT6683D) that provides: <ul style="list-style-type: none"> <li>Hardware management support</li> <li>Serial ports onboard headers</li> <li>Parallel port via an onboard header</li> </ul> </li> </ul>
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	<ul style="list-style-type: none"> <li>BIOS resident in a Serial Peripheral Interface (SPI) Flash device</li> <li>Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS)</li> </ul>
Hardware Management	<ul style="list-style-type: none"> <li>Nuvoton NCT6683D based subsystem, including: <ul style="list-style-type: none"> <li>Voltage sense to detect out of range power supply voltages</li> <li>Thermal sense to detect out of range thermal values</li> <li>3-pin system fan header with speed control</li> </ul> </li> </ul>
Power Requirement	<ul style="list-style-type: none"> <li>DC connectivity via back-panel DC jack (2.5mm/ ID, 5.5mm/ OD)</li> <li>Internal 2 pin power connector</li> </ul>
Environment	<ul style="list-style-type: none"> <li>Operating Temperature: 0 °C to +50 °C</li> <li>Storage Temperature: -20°C to +70°C</li> </ul>
Safety	<ul style="list-style-type: none"> <li>CE</li> <li>FCC</li> <li>UL</li> </ul>

## Packing List

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