

ThinMini-ITX Form Factor Intel Bay Trail

## PD10BI MT











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Thin Mini-ITX MiniCard Support

USB3.0

C-in 8v-19v

DN2800M Transition

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 PCle 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



Form Factor Processor Chipset Processor Chipset  Main Memory Main Memory  Main Memo	Item	Spec		
Processor Chipset  Main Memory  Main Memory  Main Memory  Support for up to 8 GB of system memory on a single SO-DIMM (or 4 GB each by 2 SO-DIMM)  Support for up to 8 GB of system memory on a single SO-DIMM (or 4 GB each by 2 SO-DIMM)  Integrated graphics  Inte	- recini	•		
Processor Cupset	Form Factor			
## Support for dual channel DR31. 1333/1600 (runs at 1333 MHz) SO-DIMM ## Support for up to 8 GB of system memory on a single SO-DIMM (or 4 GB each by 2 SO-DIMM) ## 204-pin DDR31. SO-DIMM ## 1	Processor Chipset			
### 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    Integrated graphics:   Digital displays (HD-Out)   Analog displays (VGA)     Internal flat panel displays:   EVDS     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 Realtek* ALC8885 audio codec supporting:   Analog stereo line-out (back panel jack)     In-chassis stereo speakers support (3 W/3 O via an internal header)     - Analog line-in (back panel jack)     - In-chassis stereo speakers support (3 W/3 O via an internal header)     - S/PDIF digital audio output (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)     - Received the provided that the provided th	•		10	
Caphics   Caph	Main Memory			
Integrated graphics   Digital displays (HO-Out)				
Digital displays (VGA)				
- Analog displays (VGA) - Internal flat panel displays:  - IVDS - Embedded DisplayPort* eDP* - 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 Realtek* ALC8885 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) - DMIC digital microphone input (internal header) - POI Express 1.0a x1 add-in card connector in the panel HD Audio/AC*97 headphones/mic support (internal header) - R-channel (7.1) HD Audio via the HD-Out interface - PCI Express 1.0a x1 add-in card connector option: PCI Express 1.0a x1 add-in card connector by 2 lanes - PCI Express Pull-Half-Mini Card slot - PCI Express Full-Half-Mini				
Internal flat panel displays:   LVDS   Embedded DisplayPort* eDP*				
LIVDS   Embedded DisplayPort* eDP*	Craphics			
### Embedded DisplayPort* eDP*    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 Realtek* ALC888S audio codec supporting:   - Analog stereo line-out (back panel jack)   - In-chassis stereo speakers support (3W/3 O 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)   POIE Express 1.0a x1 add-in card connector option: PCI Express 1.0a x1 add-in card connector option: PCI Express 1.0a x1 add-in card connector option: PCI Express Full-/Half-Mini Card slot	Graphics			
Expansion Capability  Peripheral Interfaces  Peripheral Interfaces  BIOS  Legacy I/O  Lega				
2 + 2 Chamnel High Definition Audio (HD Audio) using a Realtek* ALC888S audio codec supporting:				
Audio				
- In-chassis stereo speakers support (3 W/3 \( \Omega\$) \( \Omega\$) an internal header \) - 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  PCI Express 1.0 Ax 1 add-in card connector Option: PCI Express 1.0 ax 4 add-in card connector by 2 lanes - PCI Express Half-Mini Card slot - PCI Express Full-/Half-Mini				
Audio  - 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 - PCI Express 1.0a x4 add-in card connector Option: PCI Express 1.0a x4 add-in card connector by 2 lanes - PCI Express Full-/Half-Mini Card slot - PCI Express Full-/Half-Mini Card slot - USB 2.0 front panel ports - USB 2.0 front panel ports - USB 2.0 front panel ports - USB 2.0 high-current/fast-charging ports (Yellow) - SATA 3.0 Gb/s - SATA 3.0 Gb/s - SATA 3.0 Gb/s - SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI - Express Full-/Half-Mini Card slot) - Legacy I/O Controller (NCT6683D) that provides: - Hardware management support - Serial ports onboard header - Parallel port via an onboard header - Parallel port via an onboard header - 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 - Thermal 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 - Thermal 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 - Thermal 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 - Thermal 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 - Thermal sense to detect out of range power supply voltage				
- 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 - PCI Express 1.0a x1 add-in card connector Option: PCI Express 1.0a x4 add-in card connector by 2 lanes - PCI Express Full-/Half-Mini Card slot - PCI Express Full-/Half-Mini Card slot - PCI Express Half-Mini Card slot - USB 2.0 front panel ports - USB 3.0 back panel connectors (blue) - PCI Express Half-Mini Card slot - PCI Express Half-Mini	Audio			
- 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) - Front panel HD Audio/AC'97 headphones/mic support (internal header) - Be-channel (7.1) HD Audio via the HD-Out interface - PCI Express 1.0a x1 add-in card connector - Option: PCI Express 1.0a x4 add-in card connector by 2 lanes - PCI Express Full-/Half-Mini Card slot - PCI Express Full-/Half-Mini Card slot - PCI Express Full-/Half-Mini Card slot - USB 2.0 front panel ports - USB 2.0 high-current/fast-charging ports (Yellow) - SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI - Express Full-/Half-Mini Card slot) - Legacy I/O - Legacy I/O Controller (NCT6683D) that provides: - Hardware management support - Serial ports onboard headers - Parallel port via an onboard header - Parallel port via an onboard header - Parallel port via in a noboard header - 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 - Thermal 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: -20°C to +60 °C - Storage Temperature: -20°C to +70°C - CE - Storage Temperature: -20°C to +70°C				
Front panel HD Audio/AC'97 headphones/mic support (internal header)  • 8-channel (7.1) HD Audio via the HD-Out interface  • PCI Express 1.0a x1 add-in card connector Option: PCI Express 1.0a x4 add-in card connector by 2 lanes  • PCI Express Full-/Half-Mini Card slot  • PCI Express Full-/Half-Mini Card slot  • PCI Express Half-Mini Card slot  • PCI Express Half-Mini Card slot  • USB 2.0 front panel ports  • USB 2.0 front panel ports  • USB 3.0 back panel connectors (blue)  • USB 2.0 high-current/fast-charging ports (Yellow)  • USB 3.0 back panel connectors (blue)  • USB 3.0 book panel connectors (blue)  • USB 3.0 book panel connectors (blue)  • SATA 3.0 Gb/s  • SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI Express Full-/Half-Mini Card slot)  • Legacy I/O Controller (NCT6683D) that provides:  - Hardware management support  - Serial ports onboard headers  - Parallel port via an onboard header  - Power Requirement  • 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  • Thermal 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  • Thermal sense to detect out of range power supply voltages  • Thermal sense to detect out of range power supply voltages  • Thermal sense				
**B-channel** (7.1) HD Audio via the HD-Out interface*     **PCI Express 1.0a x 21 add-in card connector*     **Option: PCI Express 1.0a x 24 add-in card connector by 2 lanes*     **PCI Express Full-/Half-Mini Card slot*     **PCI Express Full-/Half-Mini Card slot*     **PCI Express Half-Mini Card slot*     **PCI Express Half-Mini Card slot*     **USB 2.0 front panel ports*     **USB 2.0 front panel ports*     **USB 2.0 high-current/fast-charging ports (Yellow)*     **SATA 3.0 Gb/s*				
PCI Express 1.0a x1 add-in card connector Option: PCI Express 1.0a x4 add-in card connector by 2 lanes  PCI Express Full-/Half-Mini Card slot  PCI Express Half-Mini Card slot  USB 2.0 front panel ports  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 Express Full-/Half-Mini Card slot)  Legacy I/O  Legacy I/O  Legacy I/O Controller (NCT6683D) that provides:  Hardware management support  Serial ports onboard header  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 Support for Advanced Configuration and Power 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  Voltage sense to detect out of range thermal values  3-pin system fan header with speed control  Power Requirement  Environment  Environment  Environment  Finite PCI Express 1.0a x4 add-in card connector on the pCI  1  Advanced Configuration 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  Operating Temperature: 0 °C to +60 °C  Storage Temperature: -20°C to +70°C  CE  FCC				
Option: PCI Express 1.0a x4 add-in card connector by 2 lanes  PCI Express Full-/Half-Mini Card slot  PCI Express Half-Mini Card slot  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  SATA 3.0 Gb/s  SATA 3.0 Gb/s  Legacy I/O  Legacy I/O  Legacy I/O  Legacy I/O  Chroller (NCT6683D) that provides:  - Hardware management support  - Serial ports onboard header  - Parallel port via an onboard header  - Parallel port via an onboard header  BIOS  BIOS  BIOS  BIOS  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, includings  - 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  Do connectivity via back-panel DC jack (2.5mm/ ID, 5.5mm/ OD)  Internal 2 pin power connector  Operating Temperature: -20°C to +70°C  EC  Safety  Option PCI Express 1.0a x 4 add-in card slot  1  PCI Express Full-/Half-Mini Card slot  1  1  LOS  SATA 3.0 Gb/s  OSATA 3.0 Gb/s  O	Expansion Capability	· ·		
PCI Express Full-/Half-Mini Card slot PCI Express Half-Mini Card slot PCI Express Half-Mini Card slot USB 2.0 front panel ports USB 2.0 front panel ports USB 2.0 back panel connectors (blue) SATA 3.0 Gb/s SATA 3.0 Gb/s SATA 3.0 Gb/s SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI Express Full-/Half-Mini Card slot) Legacy I/O Legacy I/O Legacy I/O Controller (NCT6683D) that provides: Hardware management support Serial ports onboard header 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 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 +60 °C Storage Temperature: -20°C to +70°C EE Safety		·	1	
Peripheral Interfaces  Paralle Description (Interface)  Legacy I/O  Legacy I/O  Legacy I/O  Legacy I/O Express Full-/Half-Mini Card slot)  Legacy I/O Controller (NCT6683D) that provides:  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 esident 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 +60 °C  Storage Temperature: -20°C to +70°C  CE  FCC			1	
Peripheral Interfaces    USB 2.0 front panel ports			·	
Peripheral Interfaces    USB 3.0 back panel connectors (blue)   2	Peripheral Interfaces		·	
Peripheral Interfaces    USB 2.0 high-current/fast-charging ports (Yellow)   2				
SATA 3.0 Gb/s SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI Express Full-/Half-Mini Card slot)  Legacy I/O  Legacy				
SATA 3.0 Gb/s port (multiplexed with an mSATA port, routed to the PCI Express Full-/Half-Mini Card slot)  Legacy I/O  Legacy I/O Controller (NCT6683D) that provides:  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 +60 °C  Storage Temperature: -20°C to +70°C  CE  FCC				
Express Full-/Half-Mini Card slot)  Legacy I/O  Legacy I/O Controller (NCT6683D) that provides:  - Hardware management support  - Serial port so an onboard header  - 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  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 +60 °C  Storage Temperature: -20°C to +70°C  CE  Safety			<u></u>	
Legacy I/O  Legacy			1	
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	Legacy I/O			
- 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 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 +60 °C - Storage Temperature: -20°C to +70°C - CE - FCC				
- 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			2	
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 +60 °C  Storage Temperature: -20°C to +70°C  CE  FCC		•		
Power Requirement  Environment  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 +60 °C  Storage Temperature: -20°C to +70°C  CE  FCC	LAN Support	·	including an RI-45 back	
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 +60 °C  Storage Temperature: -20°C to +70°C  CE  FCC			0 ,	
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 +60 °C  Storage Temperature: -20°C to +70°C  CE  Safety  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  Thermal 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  Thermal 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	BIOS			
+ 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 +60 °C  Storage Temperature: -20°C to +70°C  CE  FCC		• Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS)		
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 +60 °C  • Storage Temperature: -20°C to +70°C  • CE  • FCC				
Power Requirement  Environment  Environment  Safety  Thermal serise 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 +60 °C  • Storage Temperature: -20°C to +70°C  • CE  • FCC				
Power Requirement  Environment  Environment  Safety  DC connectivity via back-panel DC jack (2.5mm/ ID, 5.5mm/ OD)  Internal 2 pin power connector  Operating Temperature: 0 °C to +60 °C  Storage Temperature: -20°C to +70°C  CE  FCC				
• Internal 2 pin power connector  • Operating Temperature: 0 °C to +60 °C  • Storage Temperature: -20°C to +70°C  • CE  • FCC				
Environment  Operating Temperature: 0 °C to +60 °C  Storage Temperature: -20°C to +70°C  CE  FCC		· · · · · · · · · · · · · · · · · · ·		
Safety  Storage Temperature: -20°C to +70°C  • CE • FCC				
• Storage remperature: -20°C to +70°C  • CE  • FCC	Environment			
Safety • FCC		· ·		
	0.5			
• UL	Safety			
		• UL		

## Packing List

- PH10BI Mainboard50CM SATA Cable
- 45CM SATA Power Cable
- 2\*IO Shield (Half and Full height)
- Driver CD
- Quick Guide