MiTAC
MITAC INTERNATIONAL CORP.

Mini-ITX Form Factor
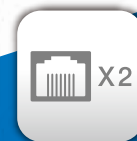## MiTAC Embedded Board Bay Trail Series

PD11BI
CC
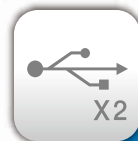
X2	Mini PCI EXPRESS®	X2	CC	
USB3.0	MiniCard Support	Dual LAN	DN2500CC Transition	Serial Port

Features

Support Intel Bay Trail-D Dual core/Quad core processor

Intel HD graphics and DriectX 11 support

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

Integrated Six-channel High Definition audio

Features dual high speed Gigabit Ethernet connection

Features 2 SATA 3Gb/s

Two USB3.0 ports and Six USB2.0 ports

One PCIeX1 connector for the future Add-in card

One PCI Express Mini Card connector for expansion card like Wifi

Dual Display capability with VGA and DVI-I port

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Sales Contact

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Item	Spec	
Form Factor	Mini-ITX (170 millimeters [6.7 inches] x 170 millimeters [6.7 inches])	
Processor	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
Integrated Graphics	● Intel HD graphics and DriectX 11 support	
	● Integrated graphics:	
	- Digital displays (DVI-I)	
	- Analog displays (VGA)	
	- Flat Panel displays (LVDS interface)	
External Graphics	External graphics support via a PCI Express 1.0a x1 graphics add-in card connector	
Audio	RealTek* ALC662 audio codec for 5.1 (6-channel) High Definition Audio (HD Audio) and AC '97 Audio. Included are:	
	● Back panel audio connectors	
	● Onboard S/PDIF digital audio header	
	Front panel microphone/headphone header with support for HD Audio or AC '97 Audio	
Legacy I/O	Legacy I/O Controller (Nuvoton NCT 6104D) that provides:	
	● Hardware management support	
	● Serial Port (Rear IO)	2
	● Serial Port (On board)	2
	● Parallel port via an onboard header	1
Expansion Capabilities	PCI-e X1 bus add-in card connector	1
	PCI Express* Full-Mini Card slot with Half-Mini Card support	1
Peripheral Interfaces	● USB 2.0 back panel connectors (black)	2
	● USB 3.0 back panel connectors (blue)	2
	● USB 2.0 front panel ports	2 (Headers)
	● Intel®Z-U130 USB Solid-State Drive or compatible device	1 (Header)
	● Serial ATA (SATA) 3.0 Gb/s interfaces	2
Hardware Monitor Subsystem	Hardware monitoring through the Nuvoton NCT 6104D legacy I/O controller, including:	
	● Remote thermal sensor	
	● 3-pin system fan header with speed contro	
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	Support for Advanced Configuration and Power Interface (ACPI), Plug and Play, and SMBIOS	
Instantly Available PC Technology	● Support for Advanced Configuration and Power Interface (ACPI)	
	● Wake on peripheral device	
Power Requirement	ATX12V, SFX12V or DC12V (4-pin)	
Environment	● Operating Temperature: 0 °C to +60 °C	
	● Storage Temperature: -20°C to +70°C	
Safety	● CE	
	● FCC	
	● UL	

Packing List

● PH11BI Mainboard ● IO Shield ● Quick Guide
● 50CM SATA Cable ● Driver CD