Mini-ITX Form Factor
MiTAC Embedded Board Braswell Series

PD14RI
HN
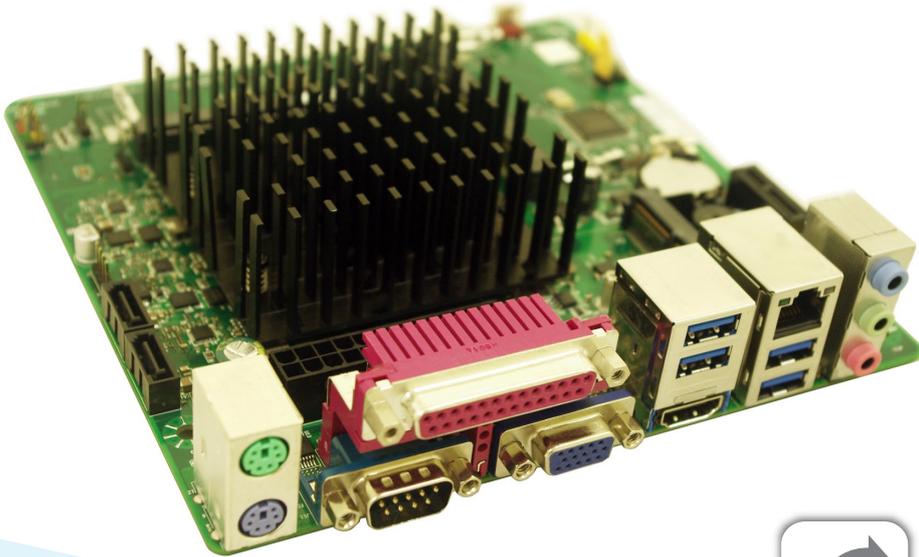
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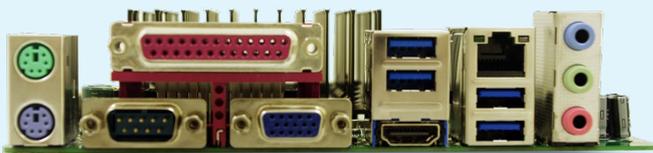Transition

3.0 X 4
USB3.0

HD
HD-out

MiniCard Support
(Optional)

Mini PCI EXPRESS

Support Intel Braswell Dual core / Quad core processor

Intel HD graphics and DriectX 12 support

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

Integrated Six-channel High Definition audio

Features 2 SATA 6Gb/s

Four USB3.0 ports

One PCIe x 1 connector for the future Add-in card (Optional)

One PCI Express Mini Card connector for expansion card like Wifi (Optional)

Dual Display capability with VGA and HD-out

MITAC INTERNATIONAL CORP.

Item	Spec	
Form Factor	Mini-ITX (170 millimeters [6.7 inches] x 170 millimeters [6.7 inches])	
Processor	Passively-cooled, soldered-down Intel® Braswell processor with integrated graphics and memory controller. Compatible for N3050 / N3150 / N3700	
Main Memory	● Support for dual channel DDR3L 1333 / 1600 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 Small Outline Dual Inline Memory Module (SO-DIMM) sockets with gold-plated contacts	2
Integrated Graphics	Intel® HD Graphics integrated graphics subsystem	
	● HD-out	1
	● VGA	1
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	
TPM	NPCT650AAAWX	Option
Legacy I/O	Legacy I/O Controller (Nuvoton* NCT6792D) that provides:	
	Hardware management support	
	● Serial Port (Rear IO)	1
	● Serial Port Header (Onboard)	1
	● Back panel parallel port	1
	● PS / 2 keyboard / mouse port	1
Expansion Capabilities	● PCI-e X1 bus add-in card connector	1
	● PCI Express* Half-Mini Card support	Option
Peripheral Interfaces	● USB 3.0 (Rear IO)	4
	● Serial ATA (SATA) 6.0 Gb/s connectors	2
	● Single Port USB 2.0 Header	1
	● Dual Port USB 2.0 Header	Option
Hardware Monitor Subsystem	Hardware monitoring through the Nuvoton* NCT6792D legacy I/O controller, including:	
	● Remote thermal sensor	
	● One 4-pin system fan header with speed control	
LAN Support	Realtek RTL8111G Gigabit (10/100/1000 Mb/s) Ethernet LAN controller including an RJ-45 back panel connector with integrated status LEDs	1
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 USB, PCI, PCI Express, LAN, serial, PS / 2, and front panel	
	● MiAPI Support	
Power Requirement	ATX 12V or SFX 12V	
Environment	● Operating Temperature: 0°C to +60°C	
	● Storage Temperature: -20°C to +70°C	
Compliance	● CE	
	● FCC	

Packing List

- PD14RI Mainboard
- IO Shield
- Quick Guide
- SATA Cable
- Driver CD