



189.95 EUR incl. 19% VAT, plus <u>shipping</u>

Audio (HD Audio) using a

- Intel Apollo Lake !
- 2x 1.86Ghz !
- 2x RS232 !
- DVI!

Support: **Support**:

This board is produced by MITAC, the OEM producer of Intel DN2800MT. This board is based on Intel DN2800MT, but is equipped with the moderm Intel Apollo Lake plattform. PD10RI is available until at least 2025.

- Intel Apollo Lake N4200/N3350 quad/dual cores processor
- Intel HD graphics and DriectX 12 support
- Dual channel DDR3L with two connectors for MAX. 8GB memory
- Triple independent display from HD-Out, DP-out, and eDP / LVDS connectivity
- Features high speed Gigabit Ethernet connection
- Features 2 SATA 6Gb/s
- Four Hi-Speed USB3.0 ports support
- Two RS232 support, optional for four extra COM ports
- One PCIe connector for the future Add-in card
- Two M.2 slot for storage and wireless expansion
- 8 V to 24 V wide-range voltage input via back-panel DC jack or internal power connector

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 Braswell N3350 Processor with integrated graphics
Memory	<ul> <li>Support for dual channel DDR3L 1867 SO-DIMMs</li> </ul>
	<ul> <li>Support for up to 8 GB of system memory on a single SO-DIMM</li> </ul>
	(or 4 GB each by 2 SO-DIMM)
	204-pin DDR3L SO-DIMM 2
	Integrated graphics:
	Digital displays (HD-Out)
	Internal flat panel displays:
	• LVDS
Graphics	<ul> <li>Embedded DisplayPort* eDP*</li> </ul>
	<ul> <li>External graphics support via a PCI Express 2.0 x1 graphics</li> </ul>
	add-in card connector
	<ul> <li>2 + 2 Channel High Definition Audio (HD A</li> </ul>
	Realtek* ALC283 audio codec supporting:

- Analog stereo line-out (back panel.jack)
- In-chassis stereo speakers support (3 W/3  $\Omega$  via an internal header)



Mitac PD10AI-N3350 (Intel DN2800MT4) Half-Height (Intel Apollo Lake N3350 2x2.4Ghz CPU, 8-24VDC) [FANLESS]

• PCI Express x1 add-in card connector       1         • M.2 (2242/2260/2280) with USB2.0 and SATA III signal       1         • M.2 (2242/2260/2280) with USB2.0 and SATA III signal       1         • M.2 (2230) with PCIex1 and USB2.0 signal for wireless       1         • USB 2.0 front panel ports       2 (Header)         • USB 2.0 front panel ports       2 (Header)         • USB 3.0 back panel       4         connectors (blue)       4         • SATA 6.0 Gb/s       1         • SATA 6.0 Gb/s       1         • Legacy I/O       • SATA 6.0 Gb/s         • Parallel port via an onboard header       2         • Parallel port via an onboard header (Dption with MIAPI       1 header)         LAN Support       2x Intel I211-AT (10/100/1000 Mb/s) Ethernet LAN controller         BIOS       • Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SIMBIOS)         Hardware Management       • 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 thermal values         • 2x 4-pin system fan header         • DC connectivity via back-panel DC jack(2.5mm/ ID, 5.5mm/ OD)         • Internal 2 pin power conn	Shop for mobile PC- and GPS-Solutions	[http://www.cartft.com/catalog/il/1409]
Expansion Capability USB2.0 and SATA III signal 1 1 for SSD M.2 (2230) with PClex1 and USB2.0 signal for wireless 1 USB 2.0 fornt panel ports 2 (Header) USB 3.0 back panel 4 connectors (blue) 4 USB 3.0 back panel 4 connectors (blue) 1 SATA 6.0 Gb/s 1 SATA 6.0 Gb/s 1 SATA 6.0 Gb/s 0 Legacy I/O Controller that provides: Serial port header 2 Parallel port via an onboard header (Option with MiAPI 1 header) 2 LAN Support 2x Intel I211-AT (10/100/1000 Mb/s) Ethernet LAN controller Hardware Management Voltage sense to detect out of range power supply voltages Hardware Management Support Voltage sense to detect out of range power supply voltages Power Requirement Storage Temperature: -20°C to +60°C Environment OC Surage Temperature: -20°C to +70°C	Expansion Capability	1
USB2.0 signal for wireless       1         VISB 2.0 front panel ports       2 (Header)         USB 3.0 back panel       4         connectors (blue)       1         SATA 6.0 Gb/s       1         SATA 6.0 Gb/s port       1         (multiplexed with an m.2 slot)       1         Eegacy I/O       Serial port header       2         Parallel port via an onboard       1         header (Option with MiAPI       1         Nuvoton NCT6793D based subsystem, including:       Nuvoton NCT6793D based subsystem, including:         Nuvoton NCT6793D based subsystem, including:       Voltage sense to detect out of range powe		USB2.0 and SATA III signal 1
Peripheral Interfaces       • USB 3.0 back panel connectors (blue)       4         Peripheral Interfaces       • SATA 6.0 Gb/s       1         • SATA 6.0 Gb/s port (multiplexed with an m.2 slot)       1         • Legacy I/O       • Legacy I/O Controller that provides:         • Serial port header       2         • Parallel port via an onboard header (Option with MiAPI header)       1         Legacy I/O       2x Intel I211-AT (10/100/1000 Mb/s) Ethernet LAN controller         BIOS       • BIOS resident in a Serial Peripheral Interface (SPI) Flash device         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 • Zx 4-pin system fan header • 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         Stetav       • CE		USB2.0 signal for wireless
Peripheral Interfaces <ul> <li>SATA 6.0 Gb/s</li> <li>SATA 6.0 Gb/s port (multiplexed with an m.2 slot)</li> <li>Legacy I/O Controller that provides:</li> <li>Serial port header</li> <li>Parallel port via an onboard header (Option with MiAPI header)</li> </ul> 1 <ul> <li>Legacy I/O</li> <li>Parallel port via an onboard header (Option with MiAPI header)</li> </ul> 1 <ul> <li>header)</li> <li>LAN Support</li> <li>Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS)</li> </ul> BIOS <ul> <li>Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS)</li> </ul> Hardware Management <ul> <li>Voltage sense to detect out of range power supply voltages</li> <li>Thermal sense to detect out of range thermal values</li> <li>2x 4-pin system fan header</li> </ul> Power Requirement <ul> <li>DC connectivity via back-panel DC jack(2.5mm/ ID, 5.5mm/ OD)</li> <li>Internal 2 pin power connector</li> </ul> Environment <li>Operating Temperature: -20°C to +70°C         <ul> <li>Storage Temperature: -20°C to +70°C</li> <li>CE</li> </ul></li>	Peripheral Interfaces	USB 3.0 back panel     4
Imultiplexed with an m.2 slot)       1         Legacy I/O       Legacy I/O Controller that provides:         Serial port header       2         Parallel port via an onboard header (Option with MiAPI header)       1         LAN Support       2x Intel I211-AT (10/100/1000 Mb/s) Ethernet LAN controller         BIOS       BIOS resident in a Serial Peripheral Interface (SPI) Flash device         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         Thermal sense to detect out of range thermal values       2x 4-pin system fan header         Power Requirement       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         Environment       CE		
Legacy I/O       • Serial port header       2         Legacy I/O       • Parallel port via an onboard header (Option with MiAPI header)       1         LAN Support       2x Intel I211-AT (10/100/1000 Mb/s) Ethernet LAN controller         BIOS       • BIOS resident in a Serial Peripheral Interface (SPI) Flash device         BIOS       • Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS)         Nuvoton NCT6793D based subsystem, including:       • Voltage sense to detect out of range power supply voltages         • Thermal sense to detect out of range thermal values       • 2x 4-pin system fan header         Power Requirement       • 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         Environment       • CE		(multiplexed with an m.2 slot)
Legacy I/O <ul> <li>Parallel port via an onboard header (Option with MiAPI 1 header)</li> <li>LAN Support 2x Intel I211-AT (10/100/1000 Mb/s) Ethernet LAN controller</li> <li>BIOS Ethernet LAN controller</li> <li>BIOS support for Advanced Configuration and Power Interface (SPI) Flash device</li> <li>Support for Advanced Configuration and Power Interface (SPI) Flash device</li> <li>Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS)</li> </ul> <ul> <li>Nuvoton NCT6793D based subsystem, including:</li> <li>Voltage sense to detect out of range power supply voltages</li> <li>Thermal sense to detect out of range thermal values</li> <li>2x 4-pin system fan header</li> </ul> Power Requirement <ul> <li>DC connectivity via back-panel DC jack(2.5mm/ ID, 5.5mm/ OD)</li> <li>Internal 2 pin power connector</li> <li>Storage Temperature: 0°C to +60°C</li> <li>Storage Temperature: -20°C to +70°C</li> <li>Storage Temperature: -20°C to +70°C</li> </ul>		
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Hardware Management• Voltage sense to detect out of range power supply voltages • Thermal sense to detect out of range thermal values • 2x 4-pin system fan header • 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	BIOS	<ul> <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>
Power Requirement       • 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	Hardware Management	<ul><li>Voltage sense to detect out of range power supply voltages</li><li>Thermal sense to detect out of range thermal values</li></ul>
Storage Temperature: -20°C to +70°C     CE	Power Requirement	DC connectivity via back-panel DC jack(2.5mm/ ID, 5.5mm/ OD)
• CE	Environment	
	Safety	• CE