

IP70

Intel® Pentium® N4200 Mini-ITX embedded sbc



KEY FEATURES

- Intel® Pentium® N4200 Processor embedded sbc
- Mini ITX Form Factor (170 x 170 mm)
- DDR3L 1866MHz SO-DIMM support up to 8 GB
- 12V Single Voltage Power Input
- Multi display supports DP / HDMI (Optional) / LVDS / eDP (Optional) panel



SPECIFICATIONS

System Specification	
Processor	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
Storage	1 x M.2 2242 SSD 64GB M.2 2242 SSD up to 512GB (Optional)
Security	TPM 2.0
Memory	2 x SODIMM, DDR3L 1866 MHz, 4GB 8GB (Optional)
Ethernet controller	2 x Intel® Ethernet Controller I210-AT
Operating System	Windows 10 IoT Enterprise (Optional) Linux Ubuntu 18.04 (Optional)
IO Ports	
Power Input	1 x 12V DC, Din4 pin connector
Serial Port	1 x RS232/422/485 (Default RS232) 1 x RS232 2 x RS232 (Optional)
Audio	1 x Mic in 1 x Line out
LAN	2 x Giga LAN RJ45 Connector
Brightness Knob	1 x Brightness Adjustment Knob
USB Port	4 x USB3.0 (Type-A)
Video	1 x DP1.2 1 x HDMI 1.4 (Optional) 1 x VGA (Optional)
Expansion Port	1 x M.2 2242 Key B slot for SSD 1 x M.2 2230 Key E slot for WiFi (Optional) 1 x PCIe 2.0 x1 (Optional)
Indicator	1 x LED Indicator for power 1 x LED Indicator for storage
Internal IO Ports	
Power input	1 x 4pin(2x2) for 12V DC in
Power output	2 x 2pin(1x2) red wafer for 5V DC out 1 x 2pin(1x2) yellow wafer for 12V DC out
USB	2 x 8pin(2x4) for 4 x USB 2.0
Serial port	1 x 10pin(2x5) for RS232/422/485 3 x RS232 (Optional)
Display	1 x 40pin DF13 connector for LVDS 1 x 30pin DF13 connector for eDP (Optional) 1 x 10pin P=2.0mm wafer for VGA (Optional)
Backlight	1 x 7pin(1x7) for panel backlight
SATA	2 x SATA III 1 x 8pin(2x4) for SATA power (SATA2 is only available when M.2 SATA is not in use; SATA2 and M.2 SATA cannot be used concurrently.)
DIDO	1 x 14pin(2x7) for Digital input/output
VR	1 x 3pin(1x3) for Digital panel backlight brightness control 1 x 3pin(1x3) VR/Software brightness switch jumper 1 x 3pin(1x3) PWM/DC brightness switch jumper 1 x 3pin(1x3) 3.3V/5V PWM Level switch jumper
Fan	2 x 3pin(1x3) for Fan

OSD	1 x 10pin(2x5) for OSD control	Speaker	2 x 2pin(1x2) for Speaker
Backup battery	1 x 2pin(1x2) for RTC battery		

Certification

Certification	CE, FCC
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Mechanical

Dimension	170 x 170 mm
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Environment

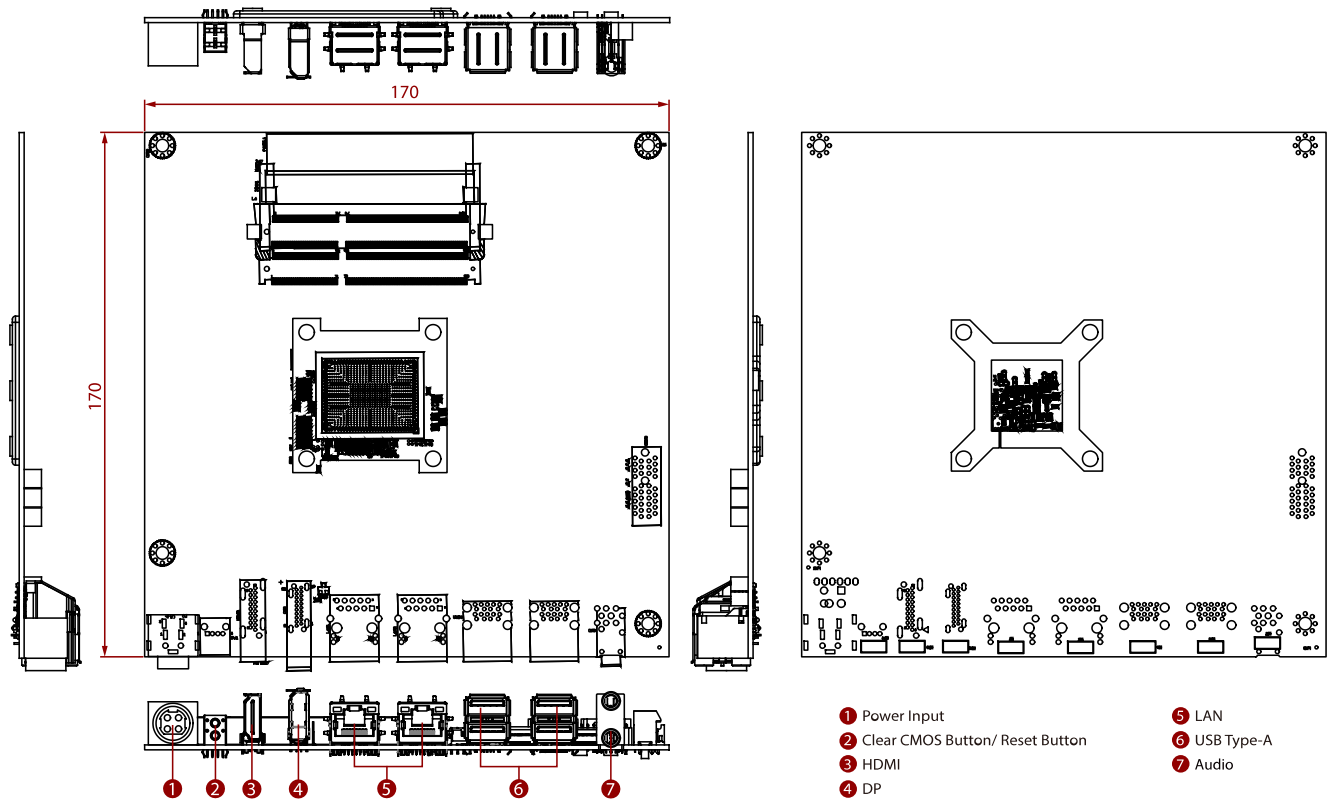
Operating Humidity	60 °C @ 95% RH, (non-condensing)	Operating Temperature	0~60°C
Storage Temperature	-40~70°C		

Accessory

Accessory	Manual & Driver CD
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DIMENSIONS UNIT:MM

Mini-ITX SBC IP70 embedded sbc



NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.