

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

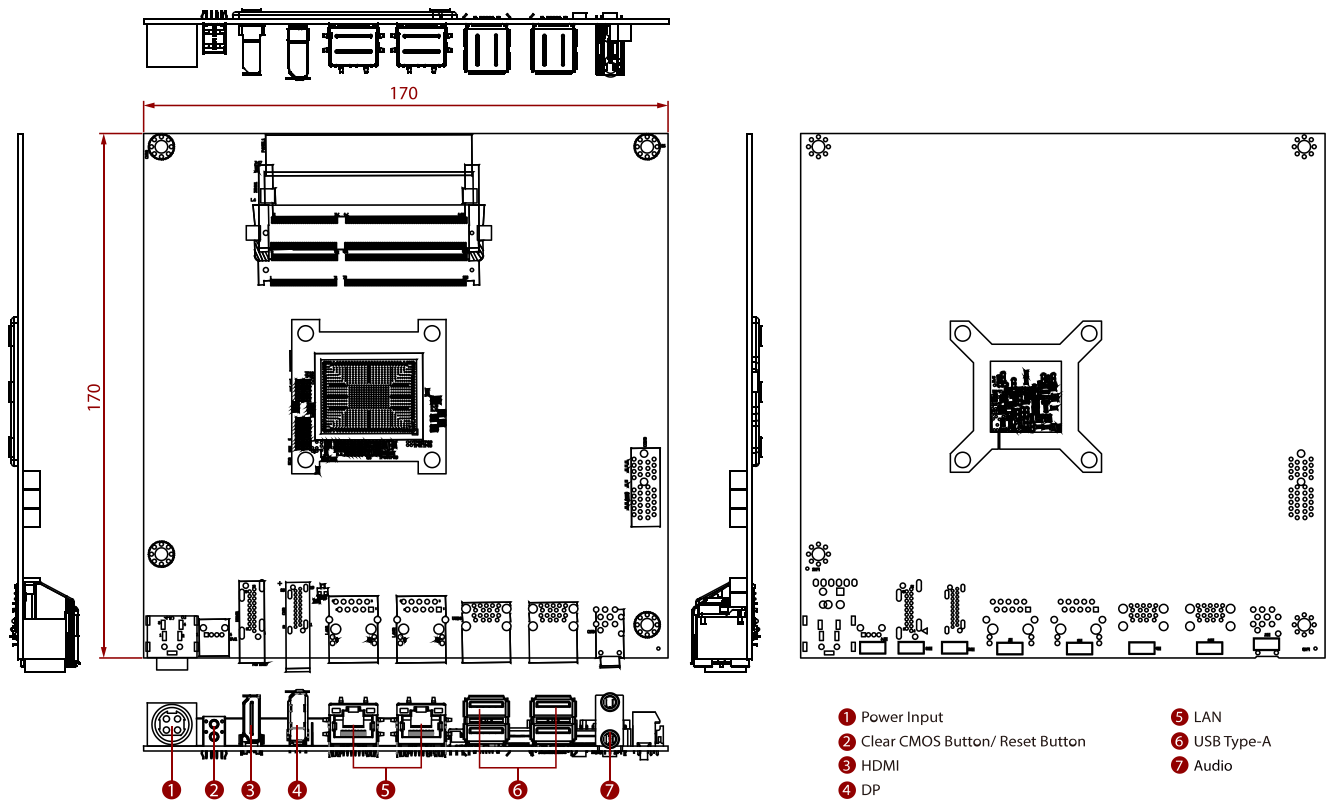


SPECIFICATIONS

| System Specification | | | |
|-----------------------|--|----------------------------|--|
| Processor | Intel Pentium N4200 1.1GHz (up to 2.5GHz) | Memory | 2 x SODIMM, DDR3L 1866 MHz, 4GB 8GB (Optional) |
| Storage | 1 x M.2 2242 SSD 128GB M.2 2242 SSD up to 512GB (Optional) | Ethernet controller | 2 x Intel® Ethernet Controller |
| Security | TPM 2.0 | Operating System | Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 20.04 (Optional) |
| IO Ports | | | |
| Power Input | 1 x 12V DC, Din4 pin connector | USB Port | 4 x USB3.2 Gen1x1 (Type-A) |
| Video | 1 x DP1.2 1 x HDMI 1.4 (Optional) 1 x VGA (Optional) | Audio | 1 x Mic in 1 x Line out |
| 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) | LAN | 2 x Giga LAN RJ45 Connector |
| Internal IO Ports | | | |
| Power input | 1 x 4pin(2x2) for 12V DC in 1 x 6pin(1x6) 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 | | |
| Mechanical | | | |
| Dimension | 170 x 170 mm | | |
| Environment | | | |
| Operating Humidity | 10% to 95% RH, Non-Condensing | Operating Temperature | 0°C to 60°C |
| Storage Temperature | -40°C to 70°C | | |
| Accessory | | | |
| Optional Accessory | Driver CD & Manual (Optional) Adapter (Optional) | | |

DIMENSIONS UNIT:MM



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.