

# IP70

## Intel® Pentium® N4200 Mini-ITX 嵌入式單板



### KEY FEATURES

- Intel® Pentium® N4200處理器。
- Mini ITX外形尺寸 ( 170 x 170 mm )。
- DDR3L 1866MHz SO-DIMM 內存支持高達8GB。
- 12 V單電壓電源輸入。
- 多顯示器支持DP / HDMI (可選) / LVDS / eDP (可選)面板。



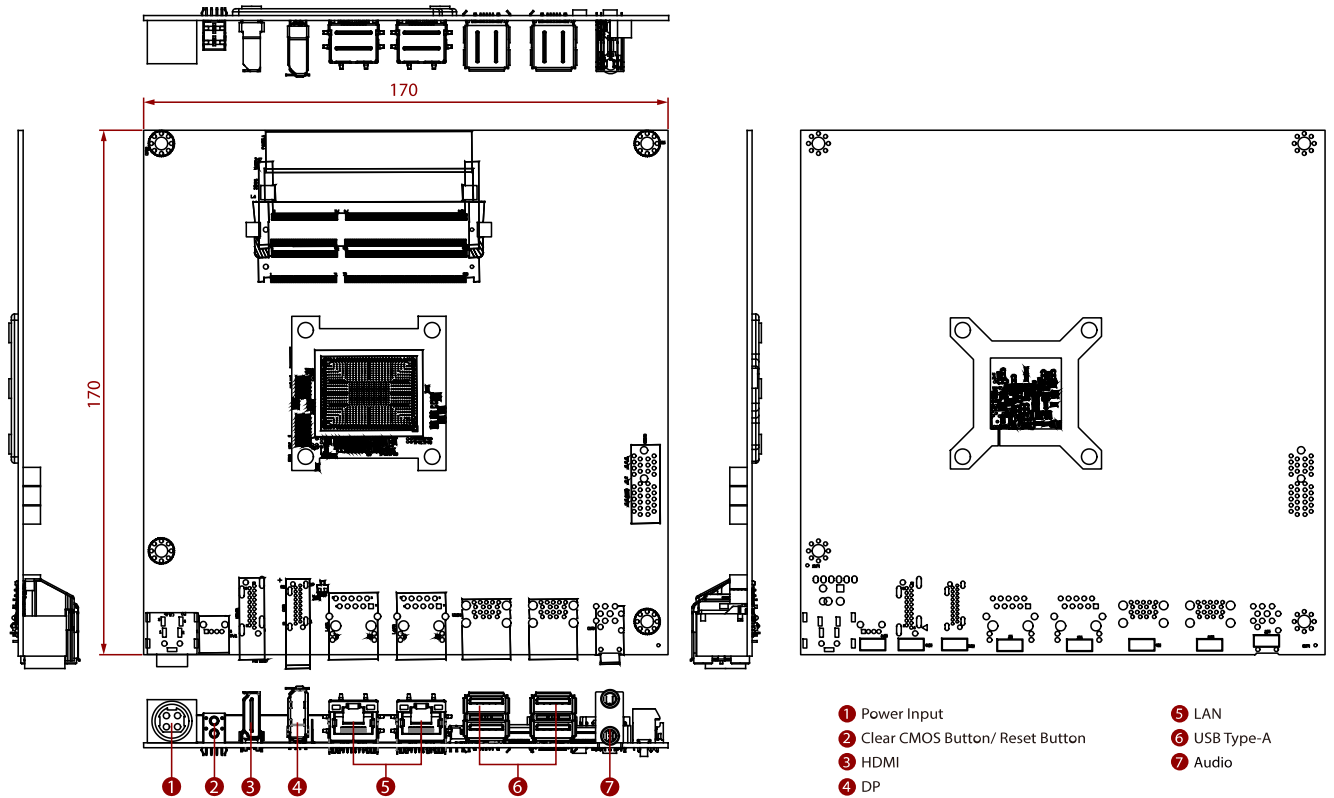
### SPECIFICATIONS

| 系統規格  |   |         |  |
|-------|---|---------|--|
| 處理器   | Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)   | 記憶體     | 2 x SODIMM, DDR3L 1866 MHz, 4GB 8GB (Optional)   |
| 儲存空間  | 1 x M.2 2242 SSD 128GB<br>M.2 2242 SSD up to 512GB (Optional)   | 以太網控制器  | 2 x Intel® Ethernet Controller I210-AT   |
| 安全支援  | TPM 2.0   | 作業系統    | Windows 10 IoT Enterprise (Optional)<br>Linux Ubuntu 18.04 (Optional)<br>Linux Ubuntu 20.04 (Optional)       |
| 訊號埠   |   |         |  |
| 電源輸入  | 1 x 12V DC, Din4 pin connector  | USB埠    | 4 x USB3.0 (Type-A)  |
| 序列埠   | 1 x RS232/422/485 (Default RS232)<br>1 x RS232<br><br>2 x RS232 (Optional)  | 影像      | 1 x DP1.2<br>1 x HDMI 1.4 (Optional)<br>1 x VGA (Optional)   |
| 音訊    | 1 x Mic in<br>1 x Line out  | 擴充端口    | 1 x M.2 2242 Key B slot for SSD<br>1 x M.2 2230 Key E slot for WiFi (Optional)<br>1 x PCIe 2.0 x1 (Optional) |
| 有線網路  | 2 x Giga LAN RJ45 Connector   | 指示燈     | 1 x LED Indicator for power<br>1 x LED Indicator for storage   |
| 亮度旋鈕  | 1 x Brightness Adjustment Knob  |         |  |
| 內部訊號埠 |   |         |  |
| 電源輸入  | 1 x 4pin(2x2) for 12V DC in<br>1 x 6pin(1x6) for 12V DC in  | 電源輸出    | 2 x 2pin(1x2) red wafer for 5V DC out<br>1 x 2pin(1x2) yellow wafer for 12V DC out                           |
| USB接口 | 2 x 8pin(2x4) for 4 x USB 2.0   | 序列埠     | 1 x 10pin(2x5) for RS232/422/485<br>3 x RS232 (Optional)   |
| 顯示    | 1 x 40pin DF13 connector for LVDS<br>1 x 30pin DF13 connector for eDP (Optional)<br>1 x 10pin P=2.0mm wafer for VGA (Optional)                                      | 背光      | 1 x 7pin(1x7) for panel backlight  |
| 串行ATA | 2 x SATA III<br>1 x 8pin(2x4) for SATA power<br>(SATA2 is only available when M.2 SATA is not in use;<br>SATA2 and M.2 SATA cannot be used concurrently.)           | 數位輸入/輸出 | 1 x 14pin(2x7) for Digital input/output  |
| VR    | 1 x 3pin(1x3) for Digital panel backlight brightness control<br>1 x 3pin(1x3) VR/Software brightness switch jumper<br>1 x 3pin(1x3) PWM/DC brightness switch jumper | 風扇      | 2 x 3pin(1x3) for Fan  |

|       |   |      |                           |
|-------|---|------|---------------------------|
|       | 1 x 3pin(1x3) 3.3V/5V PWM Level switch jumper |      |                           |
| 前控制面板 | 1 x 10pin(2x5) for OSD control                | 喇叭   | 2 x 2pin(1x2) for Speaker |
| 後備電池  | 1 x 2pin(1x2) for RTC battery                 |      |                           |
| 認證    | CE, FCC                                       |      |                           |
| 機構    |   |      |                           |
| 外觀尺寸  | 170 x 170 mm                                  |      |                           |
| 環境    |   |      |                           |
| 工作濕度  | 60 °C @ 95% RH, (non-condensing)              | 工作溫度 | 0~60°C                    |
| 儲存溫度  | -40~70°C                                      |      |                           |
| 配件    |   |      |                           |
| 配件    | Manual & Driver CD                            |      |                           |

## DIMENSIONS UNIT:MM

### Winmate IP70



## 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.