

## Fanless 12.1" Industrial Panel PC with Intel® N150 / Intel® N97



### FEATURES

- Intel® N150 / Intel® N97
- 12.1" 800x600 / 1024x768 LCD display
- Projected capacitive multi-touch control
- Flat frontal panel, IP66-compliant
- Dual 2.5 Gigabit Ethernet
- Triple display support
- Wide DC power range 12-36 VDC
- Wide AC power range 85-264 VAC



### SYSTEM

|             |                                                                 |
|-------------|-----------------------------------------------------------------|
| CPU         | Intel® N150, QC, 3.6 GHz<br>Intel® N97, QC, 3.6 GHz             |
| CHIPSET     | Intel® Alder Lake                                               |
| GRAPHICS    | Intel® UHD Graphics                                             |
| MEMORY TYPE | 1x DDR5 SO-DIMM 4800 MHz max 16 GB                              |
| AUDIO       | Realtek® ALC897                                                 |
| ETHERNET    | 2x Intel® I226V 2.5 GbE (N150)<br>2x Intel® I225V 2.5 GbE (N97) |

### DISPLAY

|                |                                                          |
|----------------|----------------------------------------------------------|
| TFT TYPE       | 12.1" TFT LCD                                            |
| MAX RESOLUTION | 800x600 or 1024x768                                      |
| LUMINANCE      | 450 cd/m <sup>2</sup> or 500 cd/m <sup>2</sup>           |
| CONTRAST RATIO | 700 : 1                                                  |
| VIEW ANGLE     | 80° / 80° / 65° / 75° or 80° / 80° / 80° / 80° (L/R/U/D) |
| MAX COLORS     | 16.7 Millions                                            |
| TOUCH TYPE     | Projected capacitive multi-touch control                 |

### STORAGE

|        |             |
|--------|-------------|
| DEVICE | 1x 2.5" SSD |
|--------|-------------|

### EXTERNAL I/O

|                   |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| SERIAL PORTS      | 1x COM (RS-232/422/485)<br>1x COM (RS-232/422/485) optional<br>2x COM (RS-232) optional |
| USB PORTS         | 2x USB 3.2, 2x USB 2.0                                                                  |
| AUDIO             | 1x Line-Out                                                                             |
| VIDEO OUTPUT      | 2x HDMI (4096x2160)                                                                     |
| LAN               | 2x RJ45 Ethernet ports                                                                  |
| PS2               | N/A                                                                                     |
| SUPPLY CONNECTION | 24 VDC terminal block<br>110-230 VAC standard VDE connector                             |

### EXPANSION SLOT

|           |                                               |
|-----------|-----------------------------------------------|
| MINI-PCIE | 1x full size with PCIe x1                     |
| M.2       | 1x Key E (2230), 1x Key M (2280) with PCIe x2 |

### OS SUPPORT

|            |                                                 |
|------------|-------------------------------------------------|
| MICROSOFT® | Windows 10 Enterprise LTSC 2021 (64 bit)        |
| MICROSOFT® | Windows 10 PRO (64 bit)                         |
| MICROSOFT® | Windows 11 Enterprise LTSC 2024 (64 bit)        |
| MICROSOFT® | Windows 11 PRO (64 bit)                         |
| LINUX      | Ubuntu 24.04.1 LTS or newer and further distros |

### POWER SYSTEM

|                     |                         |
|---------------------|-------------------------|
| RATED INPUT VOLTAGE | 24 VDC<br>110-230 VAC   |
| INPUT VOLTAGE LIMIT | 12-36 VDC<br>85-264 VAC |
| POWER CONSUMPTION   | 35 W                    |

### MECHANICAL

|                   |                                                  |
|-------------------|--------------------------------------------------|
| DIMENSION (WxHxD) | 335x270x90 mm (13.2x10.6x3.5 in)                 |
| WEIGHT            | 4.5 Kg                                           |
| FRONT PANEL       | Aluminum frontal frame with 3 mm temperate glass |
| CHASSIS           | SECC steel (galvanized)                          |
| MOUNTING TYPE     | Panel mounting with retaining clips              |

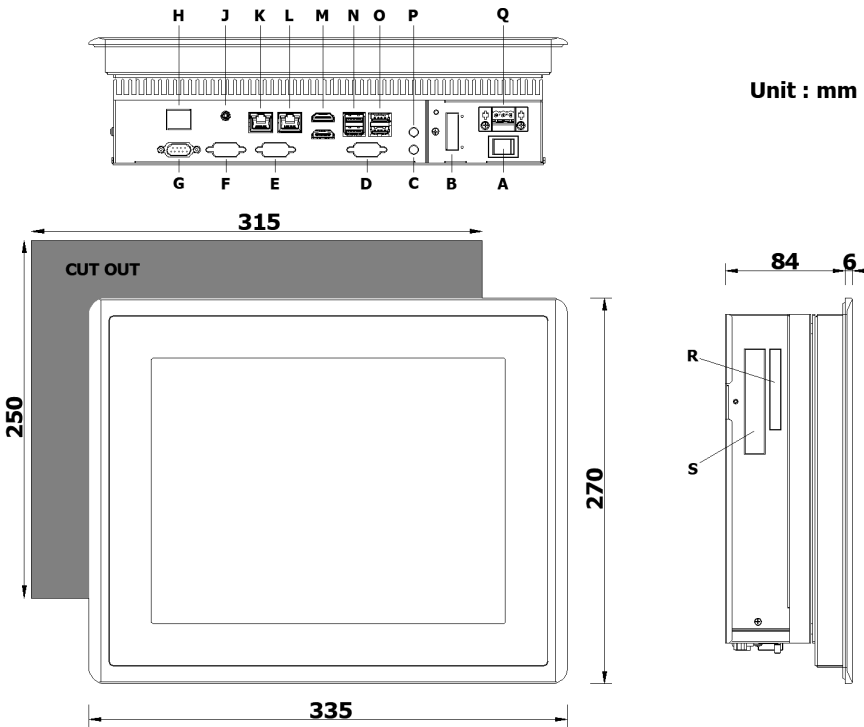
### ENVIRONMENT

|                        |                                   |
|------------------------|-----------------------------------|
| OPERATING TEMPERATURE  | 0 ~ 50 °C (32 ~ 122 °F)           |
| STORAGE TEMPERATURE    | -20 ~ 60 °C (-4 ~ 140 °F)         |
| OPERATING HUMIDITY     | 10 ~ 95 % @ 40°C (non-condensing) |
| FRONT PANEL PROTECTION | IP66                              |
| EMC                    | CE                                |
| SAFETY                 | CE                                |

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Dimensions - I/O View :

- A - Power switch
- B - Remote power On/Off (optional)  
Remote reset (optional)
- C - Wi-fi antenna (optional)
- D - RS-232 (COM 4 - optional)
- E - RS-232 (COM 3 - optional)
- F - RS-232/422/485  
(COM 2 - optional)
- G - RS-232/422/485 (COM 1)
- H - Gigabit LAN 3 (optional)
- J - Audio output
- K - 2.5 Gigabit LAN 2
- L - 2.5 Gigabit LAN 1
- M - 2x HDMI
- N - 2x USB 3.2
- O - 2x USB 2.0
- P - Wi-fi antenna (optional)
- Q - Supply connector
- R - Removable CFast (optional)
- S - Removable SSD (optional)



| AVAILABLE OPTIONS                                                    |                                          | CONFIGURATION NUMBER |   |   |   |   |   |   |
|----------------------------------------------------------------------|------------------------------------------|----------------------|---|---|---|---|---|---|
|                                                                      |                                          | 1                    | 2 | 3 | 4 | 5 | 6 | 7 |
| WiFi Lan                                                             | Wi-Fi Lan <sup>1</sup>                   | ●                    |   | ● |   |   |   |   |
| LAN                                                                  | 1x RJ45 Gigabit Lan MiniPCI-Express card |                      | ● | ● |   |   |   |   |
| Notes                                                                |                                          |                      |   |   |   |   |   |   |
| <sup>1</sup> 1 mt Wi-Fi antenna cable extension available on request |                                          |                      |   |   |   |   |   |   |

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|                                                                                                                                                                             |                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| FRONTAL PANEL OPTIONAL                                                                                                                                                      |                                                                                   |
| Frontal panel graphic customization area for logo <sup>1</sup>                                                                                                              |  |
| <sup>1</sup> To go on with the frontal panel customization, we need the vectorial logo and the logo spot on the panel.<br>Later we will send you a preview to be confirmed. |                                                                                   |

Unit : mm

