

# NES-50-J1900

## Industrial Fanless Systems Series

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# NES-50-J1900

## PRODUCT HIGHLIGHTS

- ▶ On board Intel® Celeron® processor J1900 quad core, 2.42GHz
- ▶ 1 x HDMI Display
- ▶ 2 x Intel® I210AT GbE LAN ports; Support WoL, Teaming and PXE
- ▶ 4 x USB 2.0
- ▶ 3 x mini-PCIe sockets for optional Wi-Fi/3.5G/LTE modules
- ▶ 2 x RS232, 1 x RS422/485 with auto flow control
- ▶ Supports -5°C~55 °C extended operating temperature
- ▶ Support 12V DC input



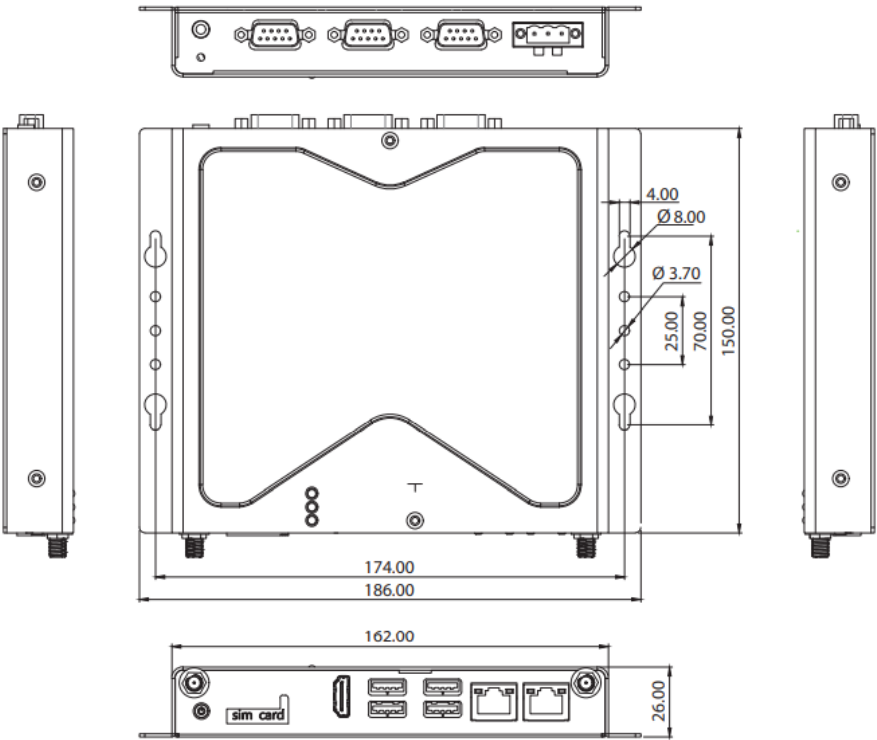
## TECHNICAL INFORMATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |      |         |         |         |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|------|---------|---------|---------|
| PROCESSOR                | On board Intel® Celeron® processor J1900 quad Core, 2.42GHz                                                                                                                                                                                                                                                                                                                                                                                   |      |     |      |      |         |         |         |
| SYSTEM MEMORY            | DDR3L SODIMM Slot *1<br>- Supports 1066/1333 RAM<br>- Un buffered and non ECC<br>- Supports up to 4GB                                                                                                                                                                                                                                                                                                                                         |      |     |      |      |         |         |         |
| DISPLAY                  | 1 x HDMI display                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |      |         |         |         |
| I/O INTERFACE-FRONT      | ATX power on/off switch<br>1 x Storage/2 x GPO programmable LED<br>1 x SIM card holder<br>2 x Intel® I210AT GbE LAN ports; support WoL, teaming and PXE<br>1 x HDMI display output<br>4 x USB 2.0 (500mA per each)<br>2 x Antenna holes for optional Wi-Fi/3.5G antenna                                                                                                                                                                       |      |     |      |      |         |         |         |
| I/O INTERFACE - REAR     | 3 x DB9 for COM1 & COM2 & COM3<br>- COM1: full RS232 signal<br>- COM2: full RS232 signal<br>- COM3: RS422/485 auto flow control<br>Support 12V DC input                                                                                                                                                                                                                                                                                       |      |     |      |      |         |         |         |
| I/O INTERFACE - INTERNAL | 4 x GPI and 4 x GPO (programmable to GPI or GPO)<br>1 x RS232, pin header, support RS232 Tx/Rx/GND signal only                                                                                                                                                                                                                                                                                                                                |      |     |      |      |         |         |         |
| STORAGE DEVICE           | mSATA module                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |      |      |         |         |         |
| EXPANSION SLOT           | 3 x mini-PCIe socket for optional Wi-Fi/3.5G modules                                                                                                                                                                                                                                                                                                                                                                                          |      |     |      |      |         |         |         |
|                          | mini-PCIe                                                                                                                                                                                                                                                                                                                                                                                                                                     | Size | USB | PCIe | SATA | mSATA   | 3.5G/4G | Wi-Fi   |
|                          | CN5                                                                                                                                                                                                                                                                                                                                                                                                                                           | Full | v   | N/A  | v    | Support | Support | N/A     |
|                          | CN6                                                                                                                                                                                                                                                                                                                                                                                                                                           | Full | v   | v    | x    | N/A     | Support | Support |
|                          | CN7                                                                                                                                                                                                                                                                                                                                                                                                                                           | Half | x   | v    | x    | N/A     | N/A     | Support |
| POWER REQUIREMENTS       | Power input: 12V DC +/-20%<br>1 x Optional 12V, 60W power adapter                                                                                                                                                                                                                                                                                                                                                                             |      |     |      |      |         |         |         |
| SUPPORTED OS             | Win7 64-bit<br>Win10 64-bit                                                                                                                                                                                                                                                                                                                                                                                                                   |      |     |      |      |         |         |         |
| DIMENSIONS               | 162mm(W) x 26mm(H) x 150mm(D) without wall-mount bracket                                                                                                                                                                                                                                                                                                                                                                                      |      |     |      |      |         |         |         |
| MECHANICAL CONSTRUCTION  | Aluminium and Metal Chassis with fanless design                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |      |         |         |         |
| ENVIRONMENT              | Operating Temperature:<br>Ambient with air flow: -5°C to 55°C<br>(According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)<br>Storage Temperature: -20°C to 75°C<br>Relative Humidity: 10% to 95% (non-Condensing)<br>Shock Protection:<br>- mSATA / EMMC: 50G, half sine, 11ms, IEC60068-2-27<br>Vibration protection w/mSATA or EMMC condition:<br>- Random: 2Grms @ 5~500 Hz, IEC60068-2-64<br>- Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6 |      |     |      |      |         |         |         |

► TECHNICAL INFORMATION (CONTINUED)

|                |                                               |
|----------------|-----------------------------------------------|
| CERTIFICATIONS | CE<br>FCC Class A                             |
| OPTIONS        | 60W 12V/5A AC/DC power adapter w/o power cord |

► MECHANICAL DRAWING



► Company Address

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