

NES-51

Industrial Fanless Systems Series



NES-51

PRODUCT HIGHLIGHTS

- ▶ On board Intel® Celeron® processor N3350 Dual Core, 2.4GHz
- ▶ 1 x DP display
- ▶ 2 x Intel® I211AT GbE LAN ports; support WoL, teaming and PXE
- ▶ 2 x USB 2.0
- ▶ 2 x USB 3.0
- ▶ 1 x mini-PCIe socket for optional Wi-Fi/BT modules
- ▶ 2 x M.2 slot for Wi-Fi/Bluetooth and storage/LTE modules
- ▶ 2 x RS232, 1 x RS422/485 with auto flow control
- ▶ Supports -5°C~55 °C extended operating temperature
- ▶ Supports 12V and 24V DC input



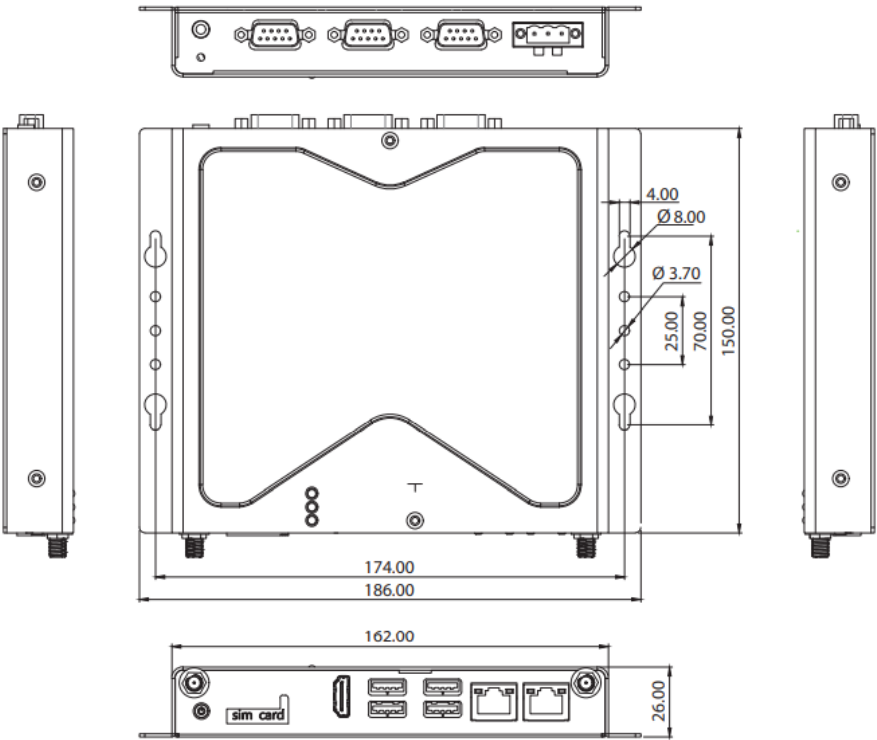
TECHNICAL INFORMATION

PROCESSOR	On board Intel® Celeron® processor N3350 Dual Core, 2.4GHz
SYSTEM MEMORY	1 x DDR3L SO-DIMM socket, support DDR3L 1866 8GB RAM max., un-buffered and non-ECC
DISPLAY	1 x DP display
I/O INTERFACE-FRONT	ATX power on/off switch 1 x Storage/2 x GPO programmable LED 1 x SIM card holder 2 x Intel® I211-AT GbE LAN ports; support WoL, teaming and PXE 1 x DP display output 2 x USB 2.0 2 x USB 3.0 3 x Antenna holes for optional Wi-Fi/3.5G antenna
I/O INTERFACE - REAR	3 x DB9 for COM1 & COM2 & COM3 - COM1/COM2: full RS232 signal - COM3: RS422/485 auto flow control 1 x Line-out Support 12V/24V DC input
I/O INTERFACE - INTERNAL	4 x GPI and 4 x GPO (programmable to GPI or GPO) 1 x RS232, pin header, supports RS232 TX/RX/GND signal only
STORAGE DEVICE	On board 16GB EMMC, max up to 32G by request Optional M.2 B, BM key 2242 module
EXPANSION SLOT	1 x mini-PCIe socket for optional Wi-Fi/3.5G module and 2 x M.2 slot for optional Wi-Fi/Bluetooth and LTE modules - 1 x mini-PCIe socket for optional Wi-Fi/BT/3.5G/LTE module - 1 x M.2 A Key slot for optional Wi-Fi/Bluetooth - 1 x M.2 B key slot for optional storage and LTE modules
POWER REQUIREMENTS	Power input: 12V/24V DC +/-10% 1 x Optional 24V, 60W power adapter
SUPPORTED OS	Linux Kernel version 4.1 (storage: 16GB eMMC) Windows 10 IoT Enterprise (storage: M.2 is recommended)
DIMENSIONS	162mm(W) x 26mm(H) x 150mm(D) without wall-mount bracket
MECHANICAL CONSTRUCTION	Metal Chassis with fanless design
ENVIRONMENT	Operating temperature: - Ambient with air flow: -5°C to 55°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14) Storage temperature: -20°C to 75°C Relative humidity: 10% to 95% (non-condensing) Shock protection: - M.2/EMMC: 50G, half sine, 11ms, IEC60068-2-27 Vibration protection w/M.2 or EMMC condition: - Random: 2Grms @ 5~500 Hz, IEC60068-2-64 - Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6

► TECHNICAL INFORMATION (CONTINUED)

CERTIFICATIONS	CE FCC Class A
OPTIONS	24V, 60W AC/DC power adapter w/o power cord

► MECHANICAL DRAWING



► Company Address

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