

All systems are fully configured & integrated to our customer's specifications including:

- Memory
- HDD/SSD
- Operating System
- Application Software
- PC/PCIe card Installation



Main Features

- Onboard Intel® Pentium® processor N3710 quad core, 1.6GHz
- 3 x display output: 1 x HDMI display + 1 x DVI-D + 1x DP port
- 2 x Intel I210AT GbE LAN ports; Support WoL, Teaming and PXE
- 4 x USB 3.0
- 2 x DB9 for RS232/422/485, 2x DB9 for RS232
- 1 x Mini-PCIe for optional Wi-Fi/3.5G/LTE modules
- Support -5°C~55°C extended operating temperature
- Support 9~ 30V DC input

Overview

Powered by the latest generation of Intel® Pentium processor N3160 Quad core, 1.6GHz (formerly codenamed "Braswell"), the NES-106-N3160 is an intelligent PC-based controller and IOT gateway for multiple applications. Up to 4GB on-board DDR3L memory, the NES-106-N3160 supports an operating temperature range from -5 up to 55 degree C with typical DC input 9~30V. The NES-106-N3160 has expandability with optional Mini-PCIe modules and 4 x COM ports to create a reliable connection with other devices in factory automation applications, IOT applications (with optional GbE LAN, Wi-Fi, 3.5G/4G LTE module) and communication applications (with optional GPIO, RS232/422/485).

The compact fanless design and optional accessories ensure the NES-106-N3160 is the ideal choice for M2M intelligent applications.

Specification

CPU Support	Onboard Intel® Pentium® processor N3160 quad core, 1.6GHz Support Intel® Pentium®/Celeron® N3000 processor family from dual core N3000/N3050 and quad core N3150 (NES-106 N3150 model)
Main Memory	1 x DDR3L SO-DIMM socket, support DDR3L 1600/1333 4GB RAM max., un-buffered and non-ECC
I/O Interface-Front	ATX power on/off switch 1 x Power status/1 x HDD access/1 x battery low/1 x programming/4 x Tx/Rx LEDs 2 x Intel® I210AT GbE LAN ports; Support WoL, Teaming and PXE 1 x HDMI + 1 x DVI-D display output 4 x USB 3.0 (900mA per each) 1 x 3-pin DC input, support +9 to 30VDC input
I/O Interface-Rear	1 x Display Port 1 x SIM Card holder 1 x external CFast socket 2 x DB9 for RS232/422/485 with auto flow control (COM1 and COM2) 2 x DB9 for RS232 (COM3 and COM4) 2 x Antenna holes for optional Wi-Fi/3.5G antenna 1 x remote power on/off switch 1 x optional I/F for optional Mini-PCIe Wi-Fi/3.5G/LTE/NEXCOM's automation module output
Storage Device	1 x 2.5" HDD (SATA3.0)
Expansion Slot	1 x Mini-PCIe socket for optional Wi-Fi/4G LTE/3.5G modules
Power Requirements	Power input: +9 to 30 Vdc 1 x optional 24V, 60W power adapter
Dimensions	185mm (W) x 131mm (D) x 54mm (H) without wall-mount bracket
Construction	Aluminium 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: -30°C to 85°C
Relative Humidity: 10% to 95% (non-condensing)
Shock protection:
- HDD: 20G, half sine, 11ms, IEC60068-27
- CFast: 50G, half sine, 11ms, IEC60068-27
Vibration protection w/HDD condition:
- Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64
- Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-64
Vibration protection w/CFast & SSD condition:
- Random: 2Grms @ 5~500 Hz, IEC60068-2-64
- Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-64

Certifications

CE FCC Class A

OS Support List

Windows 7
Windows 8.1
Windows Embedded Standard 7
Windows Embedded Standard 8
Android 4.4

Dimension Drawing

