

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

- Memory
- HDD/SSD
- Operating System
- Application Software
- PCI/PCle card Installation



**Main Features**

- Onboard Intel® Atom™ processor E3826 dual core, 1.46GHz
- 1 x HDMI Display
- 2 x Intel® I210AT GbE LAN ports; Support WoL, Teaming and PXE
- 4 x USB 2.0
- 3 x Optional Interface for optional WiFi/3.5G/LTE modules
- 1x RS232, 1x RS232 (only Tx/Rx/GND), 1xRS422/485 with auto flow control
- Support -5 ~ 55 degree C extended operating temperature
- Support 24V DC input

**Overview**

Powered by the latest generation of Intel® Atom™ processor E3826 (formerly codenamed "Bay Trail-I"), the fanless NES-50 is an intelligent PC-based controller and IOT gateway for multiple applications. Up to 4GB on-board DDR3L memory, the NES- 50 supports an operating temperature range from -5 up to 55 degree C and has a wide range DC input, 24V +/-20%. The NES-50 has expandability with optional Mini-PCle modules and 3 x COM ports for a reliable connection with other devices in factory automation applications, IOT applications (with optional Wi-Fi, 3.5G/4G LTE module) and communication applications (with optional GPIO, RS232).

The compact fanless design and optional accessories ensure the NES-50 is the ideal choice for M2M intelligent applications

**Specification**

<b>CPU Support</b>	Default: Onboard Intel® Atom™ processor E3826 Dual Core, 1.46GHz Option: Support Intel® Atom™ E3800 processor family (by request) - Single Core E3815 - Dual Core E3825/E3826/E3827 - Quad Core E3845
<b>Main Memory</b>	On-board 2GB DDR3L 1066/1333 RAM - Un-buffered and non-ECC - Max up to 4GB for option
<b>I/O Interface-Front</b>	ATX power on/off switch 1x Storage/2x GPIO Programming LEDs 1 x SIM Card holder 2 x Intel® I210AT GbE LAN ports; Support WoL, Teaming and PXE 1 x HDMI Display Output 4 x USB 2.0 (500mA per each) 2 x Antenna Holes for optional WiFi/3.5G antenna
<b>I/O Interface-Rear</b>	3x DB9 for COM1 & COM2 & COM3 - COM1: full RS232 signal - COM2: RS232, only support Tx/Rx/GND - COM3: RS422/485 auto flow control 1 x Line-out Support 24V +/-20% DC INPUT
<b>Storage Device</b>	On-board 16GB EMMC
<b>Expansion Slot</b>	3 x Mini-PCle sockets for optional WiFi/3.5G modules
<b>Power Requirements</b>	Power input: 24V +/-20% DC Vdc 1 x optional 24V, 60W power adapter
<b>Dimensions</b>	162mm(W) x 26mm(H) x 150mm(D) without wall-mount bracket
<b>Construction</b>	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: -20°C to 75°C  
Relative Humidity: 10% to 95% (non-Condensing)  
Shock Protection:  
- EMMC: 50G, half sine, 11ms, IEC60068-27  
Vibration Protection w/ EMMC Condition:  
- Random: 2Grms @ 5-500 Hz, IEC60068-2-64  
- Sinusoidal: 2Grms @ 5-500 Hz, IEC60068-2-6

**Certifications**

CE  
FCC Class A

**OS Support List**

Windows 8.1  
Windows Embedded Standard 8.1  
Windows 10 IoT core  
Android 4.4

**Dimension Drawing**

