

NES-3800E2/P2/P2E

Industrial Fanless Systems Series



NES-3800E2/P2/P2E

PRODUCT HIGHLIGHTS

- ▶ Supports 6th generation Intel® Core™ i7/i5/i3 LGA embedded processors
- ▶ Intel® Q170 PCH chipset
- ▶ Choice of 2 x PCIe slots or 2 x PCI slots or 1 x PCIe/1 x PCI slots
- ▶ Supports 1 x 2.5" SATA HDD
- ▶ 1 x DVI-D, 1 x DP, and 1 x HDMI with independent display support
- ▶ Three Intel® GbE LAN ports; supports WoL, teaming and PXE
- ▶ 1 x External M.2 (M-key 2242) socket and 1 x SIM card socket
- ▶ 4 x USB 3.0, 2 x USB 2.0, 2 x RS232/422/485 with auto flow control
- ▶ 2 x Internal mini-PCIe sockets
- ▶ Supports +9V to 30VDC input; ATX power mode



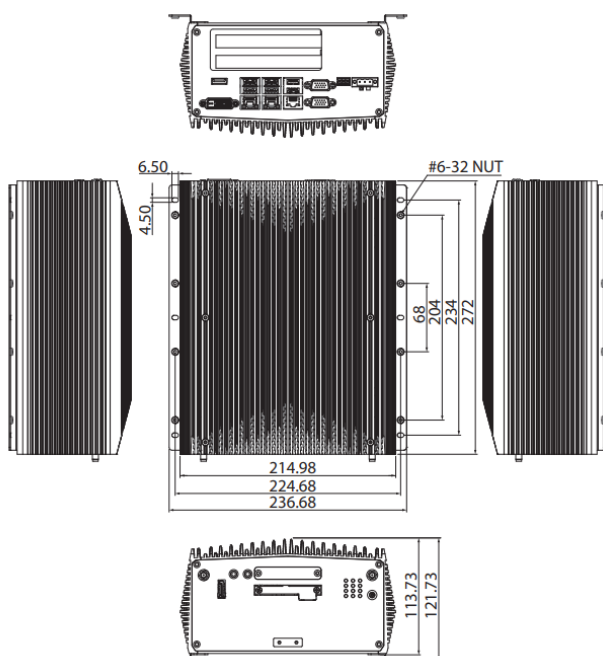
TECHNICAL INFORMATION

PROCESSOR	Supports 6th generation Intel® Core™ i7/i5/i3 LGA socket type embedded processor - Core™ i7-6700TE, Quad Core, 2.4GHz, 8M Cache - Core™ i5-6500TE, Quad Core, 2.3GHz, 6M Cache - Core™ i3-6100TE, Dual Core, 2.7GHz, 4M Cache - Intel® Pentium® Processor G4400TE 2.4GHz , 3M Cache - Intel® Celeron® Processor G3900TE 2.3GHz , 2M Cache Turbo-boost disabled by default
SYSTEM MEMORY	2 x DDR4 SO-DIMM socket, supports up to 32GB with un-buffered and non-ECC
DISPLAY	Three independent displays - HDMI + DP+ DVI-D Dual independent displays - HDMI + DP - HDMI + DVI-D - DP + DVI-D
FRONT I/O INTERFACE STATUS LEDS	3 x LAN active LEDs 2 x GPO status/COM1/2 TX/RX LEDs 1 x HDD access LEDs
I/O INTERFACE-FRONT	1 x ATX power on/off switch 1 x DP 1 x Line-out and 1 x Mic-in 2 x Antenna holes 1 x External M.2 (M-key 2242) socket 1 x SIM card holder
I/O INTERFACE - REAR	2 x DB9 for COM1 & COM2 - COM1: RS232/422/485 auto flow control - COM2: RS232/422/485 auto flow control 4 x USB 3.0 ports (900mA per each) 2 x USB 2.0 ports (500mA per each) 1 x DVI-D port 1 x HDMI port 3 x Intel® I210IT GbE LAN ports; supports WoL, teaming and PXE 1 x 2-pin remote power on/off switch +9V to 30V DC input
STORAGE DEVICE	1 x External M.2 SATA 3.0 (M-key 2242) socket 1 x mSATA (SATA 3.0) 1 x 2.5" HDD (SATA 3.0)
EXPANSION SLOT	<u>NES-3800E2</u> : Two PCIe x4 expansion slots - Add-on card length: one 169mm max, and one 240mm max. - Power consumption: 10W/slot max <u>NES-3800P2</u> : two PCI expansion slots - Add-on card length: one 169mm max, and one 240mm max. - Power consumption: 10W/slot max <u>NES-3800P2E</u> : one PCIe x4 and one PCI expansion slot - Add-on card length: one 169mm max for PCIe x4, and one 240mm max for PCI - Power consumption: 10W/slot max 2 x Internal mini-PCIe socket support optional Wi-Fi/3.5G/mSATA/Fieldbus

► TECHNICAL INFORMATION (CONTINUED)

POWER REQUIREMENTS	AT/ATX power mode (default: ATX power mode) Power input: +9 to +30V DC Power adapter: optional AC to DC power adapter (24V DC, 120W)
DIMENSIONS	215 mm(W) x 272mm (D) x 114mm (H)without wall mount bracket (8.5"x10.7"x4.5")
MECHANICAL CONSTRUCTION	Aluminium and metal chassis with fanless design
ENVIRONMENT	Operating temperature: Ambient with air flow: -5°C to 60°C, uses wide temperature memory and storage (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14) Storage temperature: -20°C to 85°C Relative humidity: 10% to 93% (non-condensing) Shock protection: - HDD: 20G, half sine, 11ms, IEC60068-2-27 - M.2: 50G, half sine, 11ms, IEC60068-2-27 Vibration protection with HDD condition: - Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64 - Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-6
SUPPORTED OS	Windows 7 32-bit and 64-bit Windows 8.1 32-bit and 64-bit Windows 10 64-bit
CERTIFICATIONS	CE approval- EN61000-6-2- EN61000-6-4 FCC Class A UL
WEIGHT	Gross weight: 6.4kg Net weight: 5.0kg

► MECHANICAL DRAWING



► Company Address

Kontron UK Limited
Units 3, 4, 5, 9 & 10 New Bury Park
Marsh Lane, Easthampnett, UK
TEL: +44 (0) 1243 380780
uksales@kontron.com
www.industrial-computers.com