



Main Features

- ♦ Support 6th & 7th Generation Intel® Core™ i7/i5/i3 LGA socket type embedded processor
- ♦ Intel® H110 PCH
- ♦ Support 1 x 2.5" SATA HDD
- ♦ 1 x DVI-D and 1 x HDMI with independent display support
- ♦ Two Intel® GbE LAN ports; support WoL, teaming and PXE
- ♦ 1 x SIM card socket
- ♦ 4 x USB 3.0 and 2 x USB 2.0
- ♦ 2 x RS232/422/485 with auto flow control and 1 x RS232 via COM 3
- ♦ 2 x Internal mini-PCIe sockets support optional Wi-Fi/3.5G/mSATA/Fieldbus
- ♦ Support +9V to 30VDC input; ATX power mode
- ♦ One PCIe x4 expansion

Product Overview

Integrated with 6th & 7th Generation Intel® Core™ i7/i5/i3 processors, PICE3800 series is the fanless PC designed for industrial applications which demand high CPU and graphics performance. PICE3800 supports up to 32G DDR4 memory and have several options on storage devices like M.2, HDD, mSATA or SSD. PICE3800 supports wide range of DC input from +9V to 30V DC input, and can be operated in an extended operating temperature range between -5 to 55 Celsius degree. For extended module availability, PICE3800 also designed two internal mini-PCIe sockets to support IoT applications (integrate with optional GbE LAN, Wi-Fi, 3.5G module) and common communication applications (integrate with optional GPIO, RS232/422/485 module).

Specifications

CPU Support

- ♦ Support 6th & 7th Generation Intel® Core™ i7/i5/i3 LGA socket type embedded processors
 - Intel® Core™ i7-7700T, Quad Core, 2.9GHz, 8M Cache
 - Intel® Core™ i5-7500T, Quad Core, 2.7GHz, 6M Cache
 - Intel® Core™ i3-7101TE, Dual Core, 3.9GHz, 3M Cache
 - Intel® Celeron® G3930TE 2.7GHz, 2M Cache
 - Intel® Core™ i7-6700TE, Quad Core, 2.4GHz, 8M Cache
 - Intel® Core™ i5-6500TE, Quad Core, 2.3GHz, 6M Cache
 - Intel® 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

Main Memory

- ♦ 2 x DDR4 1866/2133 SO-DIMM socket, support up to 32GB

Display Option

- ♦ Two independent display
 - HDMI+ DVI-D

Front I/O Interface Status LEDs

- ♦ 2 x LAN active LEDs
- ♦ 2 x GPO status/COM1/2 TX/RX LEDs
- ♦ 1 x HDD access LEDs

Front I/O Interface

- ♦ 1 x ATX power on/off switch
- ♦ 2 x USB 2.0 ports (500mA per each)
- ♦ 1 x Line-out and 1 x Mic-in
- ♦ 2 x Antenna holes
- ♦ 1 x SIM card holder

Rear I/O Interface

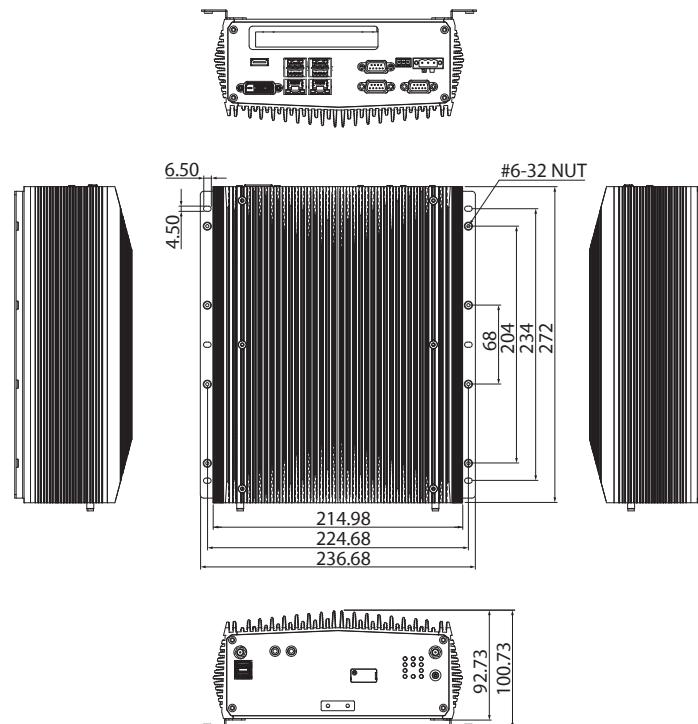
- ♦ 3 x DB9
 - COM1: RS232/422/485 auto flow control
 - COM2: RS232/422/485 auto flow control
 - COM3: RS232
- ♦ 4 x USB 3.0 ports (900mA per each)
- ♦ 1 x DVI-D port
- ♦ 1 x HDMI port
- ♦ 2 x Intel® I210IT GbE LAN ports; support WoL, teaming and PXE
- ♦ 1 x 2-pin remote power on/off switch
- ♦ +9V to 30V DC input

Storage Device

- ♦ 1 x 2.5" HDD (SATA 3.0)
- ♦ 1 x mSATA (internal mini-PCIe socket)



Dimension Drawing



Expansion Slot

- One PCIe x4 expansion slot
 - Add-on card length: 169mm max.
 - Power consumption: 10W/slot max.
- 2 x Internal mini-PCIe sockets support optional Wi-Fi/3.5G/mSATA/Fieldbus

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 93mm (H) without wall mount bracket (8.5" x 10.7" x 3.7")

Construction

- Aluminum 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, IEC60068-27

- CFast: 50G, half sine, 11ms, IEC60068-27
- Vibration Protection with HDD Condition:
 - Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64
 - Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-6

Certifications

- CE approval- EN61000-6-2- EN61000-6-4
- FCC Class A
- UKCA

OS Support Lists

- Windows 7 32-bit and 64-bit
- Windows 8.1 32-bit and 64-bit
- Windows 10 64 bits

Weight Information

- Gross weight: 5.9kg
- Net weight: 4.5kg

Ordering Information

- PICE3800E-H110 System (P/N: 10J00380000X0)**
6th & 7th Generation Intel® Core™ i7/i5/i3 fanless system with one PCIe x4 expansion
- 24V, 120W AC to DC power adapter w/o power cord (P/N: 7400120029X00, Lite-On)**