



## Main Features

- Support 6th & 7th Generation Intel® Core™ i7/i5/i3 LGA socket type embedded processor
- Intel® Q170 PCH
- Support 2 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; support WoL, teaming and PXE
- 1 x External M.2 2242 Key M socket and 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
- 1 x Two 2.5" HDD bracket trays

## 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 60 Celsius degree (uses wide temperature memory and storage). 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 processor
  - 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

- Three independent display
  - HDMI + DP+ DVI-D
- Dual independent display
  - 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

### Front I/O Interface

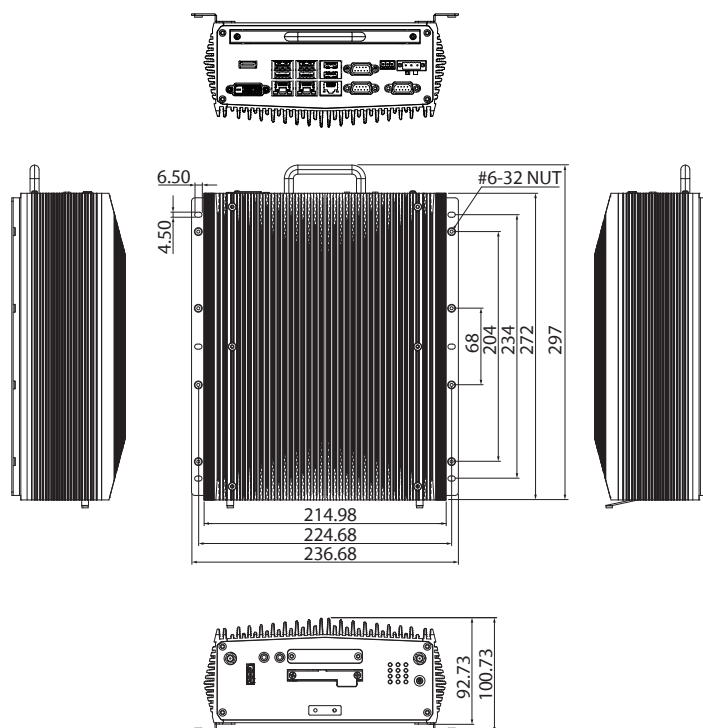
- 1 x ATX power on/off switch
- 1 x DP
- 1 x Line-out and 1 x Mic-in
- 2 x Antenna holes
- 1 x External M.2 2242 Key M socket
- 1 x SIM card holder

### 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)
- 2 x USB 2.0 ports (500mA per each)
- 1 x DVI-D port
- 1 x HDMI port
- 3 x Intel® I210-IT GbE LAN ports; support WoL, teaming and PXE
- 1 x 2-pin remote power on/off switch
- +9V to 30V DC input



## Dimension Drawing



### Storage Device

- 1 x External M.2 SATA 3.0 Key M (2242) socket
- 1 x mSATA (SATA 3.0)
- 2 x 2.5" HDD (SATA 3.0) optional

### Expansion Slot

- Two 2.5" HDD expansions
- 2 x Internal mini-PCIe socket 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

### 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

### • PICE3800R System (P/N: 10J00380001X0)

6th & 7th Generation Intel® Core™ i7/i5/i3 fanless system with two external 2.5" HDD brackets to support RAID 0/1

### • 24V, 120W AC to DC power adapter w/o power cord (P/N: 7400120029X00, Lite-On)