PICE105U

Intel® Celeron® Processor J1900 Quad Core Fanless System

Main Features

- Onboard Intel® Celeron® processor J1900 Quad Core, 2.42GHz
- Dual independent display from DVI-I and HDMI
- 2 x Intel® I210AT GbE LAN ports; support WoL, teaming and PXE
- 2 x USB 2.0, 1 x USB 3.0
- 4 x COM ports (COM1 & COM2 with RS232/422/485, jumper-free setting)
- 1 x Optional interface for optional Wi-Fi/3.5G
- Support -10°C to 60°C operating temperature
- Support 9-30VDC input

Product Overview

Powered by Intel® Celeron® processor (formerly codenamed "Bay Trail"), the PICE105U provides outstanding performance not only on computing but also on graphics, and it presents a brand new opportunity for both intelligent and industrial computing solutions. Up to 8G DDR3L memory, PICE105U have several options on storage devices like M.2, HDD and SSD. The PICE105U support wide DC input range from 9-30VDC. The PICE105U has high integration ability with optional mini-PCIe module and 4 x COM ports, which makes it a real intelligent system for various applications such as factory automation applications, network applications (with optional GbE LAN, Wi-Fi, 3.5G/4G LTE module) and communication applications (with optional GPIO, RS232/422/485). PICE105U is definitely the top choice for M2M intelligent system and factory automation platforms.

Specifications

CPU Support
- Onboard Intel® Celeron® processor J1900 Quad Core, 2.42GHz

Main Memory
- 1 x DDR3L 1066/1333 SO-DIMM socket, support up to 8GB

Display Option
- Dual independent display
  - HDMI and DVI-I
  - HDMI and VGA (via DVI-I to VGA converter)

I/O Interface-Front
- ATX power on/off switch
- 1 x Power status/1 x HDD access/1 x battery low/1 x programing LEDs
- 2 x Intel® I210AT GbE LAN ports; support WoL, teaming and PXE
- 1 x HDMI
- 1 x USB 3.0 (900mA per each)
- 2 x USB 2.0 (500mA per each)
- 1 x DB9 for COM1 support RS232/422/485 with auto flow control
  - Jumper-free setting on RS232/422/485
- 1 x 2-pin DC input, support +9 to 30VDC input

I/O Interface - Rear
- 1 x Remote power on/off switch

- DVI-I display output
- 1x DB9 for COM2, support RS232/422/485 with auto flow control
  - Jumper-free setting on RS232/422/485
- 2 x DB9 for COM3 & COM4 support RS232 only
- 1 x Mic-in & 1 x Line-out
- 2 x Antenna holes for optional Wi-Fi/3.5G antenna
- 1 x Optional I/F for optional mini-PCIe Wi-Fi/3.5G

I/O Interface - Internal
- 4 x GPI and 4 GPO (5V, TTL type)

Storage Device
- 1 x M.2, support B & B+Key M module (2242)
- 1 x 2.5" HDD (SATA 2.0)

Expansion Slot
- 1 x mini-PCIe socket for optional Wi-Fi/3.5G
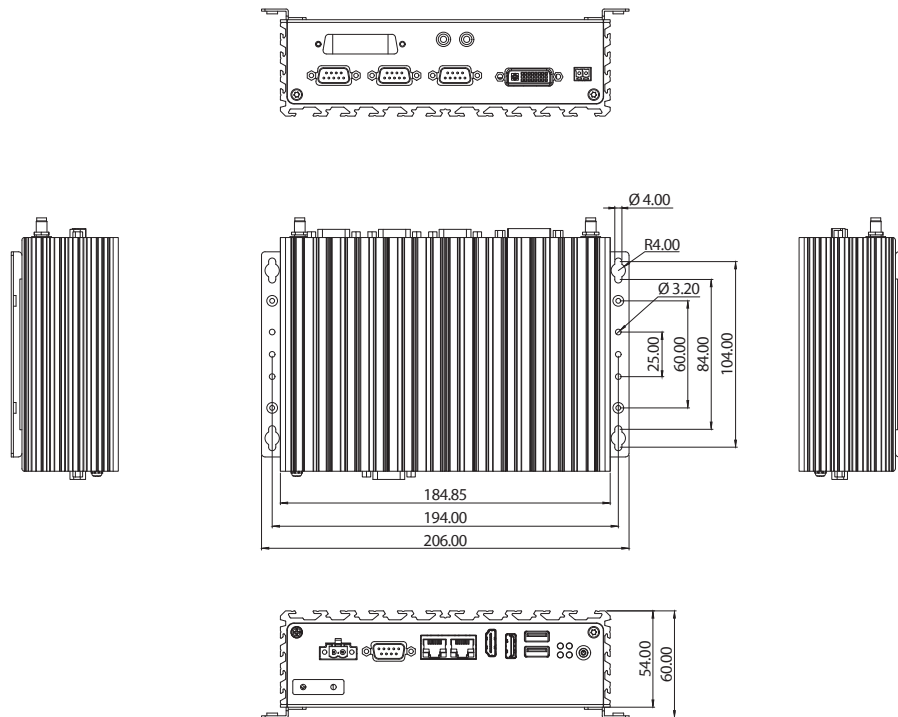
Power Requirement
- Power input: +9VDC to +30VDC
- 1 x Optional 24V, 60W power adapter

Support OS
- Windows 7, 32-bit/64-bit

Fanless Computer

NEXAIOT

Dimension Drawing

- Windows Embedded Standard 7, 32-bit/64-bit
- Windows Embedded Compact 7, 32-bit
- Windows 10 IoT Enterprise, 64-bit
- Linux Kernel version 3.8.0

Dimensions
- 185mm (W) x 131mm (D) x 54mm (H) without wall-mount bracket

Construction
- Aluminum and metal chassis with fanless design

Environment
- Operating temperature
  Ambient with air flow: -10°C to 60°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, IEC60068-2-27
  - M.2: 50G, half sine, 11ms, IEC60068-2-27

- Vibration protection w/HDD condition
  - Random: 0.5Grms @ 5~500Hz, IEC60068-2-64
  - Sinusoidal: 0.5Grms @ 5~500Hz, IEC60068-2-6
- Vibration protection w/M.2 & SSD condition
  - Random: 2Grms @ 5~500Hz, IEC60068-2-64
  - Sinusoidal: 2Grms @ 5~500Hz, IEC60068-2-6

Certifications
- CE
- FCC Class A

Ordering Information

- **PICE105U (P/N: 10J00010522X0)**
  Intel® Celeron® processor J1900 Quad Core fanless system

- **24V, 60W AC/DC power adapter w/o power cord**
  (P/N: 7400060061X00)

We reserve the right to change specifications and product descriptions at any time without prior notice.   Last update: 07/04/2023

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