



Main Features

- Onboard Intel Atom® processor E3826 dual core, 1.46GHz
- 1 x HDMI display
- 2 x Intel® I210-AT GbE LAN ports; support WoL, teaming and PXE
- 4 x USB 2.0
- 3 x mini-PCIe sockets for optional Wi-Fi/3.5G/LTE modules
- 1 x RS232, 1 x RS232 (only Tx/Rx/GND), 1 x RS422/485 with auto flow control
- Support -10°C to 60°C operating temperature
- Support 24V DC input

Product Overview

Powered by the latest Generation of Intel Atom® processor E3826 (formerly codenamed "Bay Trail-I"), PICE50 series positions at the intelligent IoT gateway for factory automation and for smart city applications. Up to 4G onboard DDR3L memory, the PICE50 series support operating temperature from -10°C to 60°C with 24V DC input with +/-20% range. The PICE50 series have strong connectivity - Ethernet-based LAN port and traditional RS485, mainly for Modbus TCP or Modbus RTU communication. For wireless connectivity, there are 3x mini-PCIe sockets which can support optional wireless modules for IoT applications, for example, Wi-Fi, Bluetooth, 3.5G and 4G LTE module. PICE50 is definitely the best choice for M2M intelligent system as an intelligent IoT gateway.

Specifications

CPU Support

- Onboard Intel® Atom™ processor E3826 Dual Core, 1.46GHz

Main Memory

- Onboard DDR3L 2GB

Display Option

- 1 x HDMI display

I/O Interface-Front

- ATX power on/off switch
- 1 x Storage/2 x GPO programmable LED
- 1 x SIM card holder
- 2 x Intel® I210-AT 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 Wi-Fi/3.5G antenna

I/O Interface-Rear

- 3 x 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 DC input

I/O Interface - Internal

- 4 x GPI and 4 x GPO (programmable to GPI or GPO)
- 1 x DB9, only support RS232, Tx/Rx/GND single

Storage Device

- Onboard 16GB EMMC
- Optional mSATA module

Expansion Slot

- 3 x mini-PCIe socket for optional Wi-Fi/3.5G modules

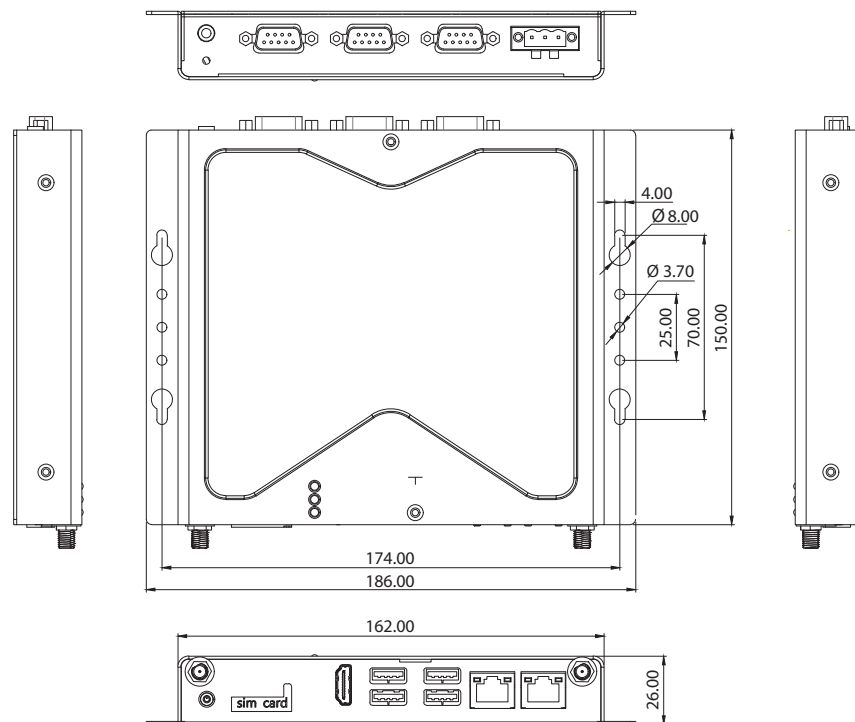
mini-PCIe	Size	USB	PCIe	mSATA	3.5G/4G
CN5	Full	v	N/A	Support	Support
CN6	Full	v	v	N/A	Support
CN7	Half	v	v	N/A	N/A

Power Requirements

- Power input: 24V DC +/-20%
- 1 x Optional 24V, 60W power adapter



Dimension Drawing



Support OS

Model Name	PICE50		PICE50-4G-32G		PICE50W	
	eMMC 16GB	mSATA	eMMC 32GB	mSATA	SSD	
Storage						
Memory	2GB		4GB		2GB	
OS	Ubuntu	32-bit		64-bit		
	Win10 IoT Ent.			64-bit	64-bit	
	WES8	32-bit	32-bit	64-bit	64-bit	32-bit
	Win7 Pro		32-bit		64-bit	32-bit
	WES7E		32-bit		64-bit	32-bit
	WEC7		32-bit		32-bit	32-bit

- Storage temperature: -20°C to 75°C
- Relative humidity: 10% to 95% (non-condensing)
- Shock protection:
 - mSATA/EMMC: 50G, half sine, 11ms, IEC60068-2-27
- Vibration protection w/ mSATA or EMMC condition:
 - Random: 2Grms @ 5~500 Hz, IEC60068-2-64
 - Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6

Certifications

- CE
- FCC Class A
- UL/cUL

Dimensions

- 162mm (W) x 26mm (H) x 150mm (D) without wall-mount bracket

Construction

- 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)

Ordering Information

◆ PICE50 (P/N: 10J00005000X0)

Intel Atom® processor E3826 Dual Core fanless system, with onboard 16GB EMMC and 2G DDR3L RAM

◆ 24V, 60W AC/DC power adapter w/o power cord (P/N: 7400060054X00)