

# DATENBLATT

---

## PICE50-Serie

### **HABEN SIE FRAGEN ODER WÜNSCHEN SIE EIN INDIVIDUELLES ANGEBOT?**

Unser Team berät Sie gerne persönlich.

**TELEFON** + 49 (0) 81 41/36 97-0

**TELEFAX** + 49 (0) 81 41/36 97-30

**E-MAIL** [info@plug-in.de](mailto:info@plug-in.de)

**WWW.PLUG-IN.DE**

### **ADRESSE**

Am Sonnenlicht 5

D-82239 Alling bei München



Microsoft  
Azure

Certified



## Main Features

- Onboard Intel® Atom™ processor E3826 dual core, 1.46GHz
- 1 x HDMI display
- 2 x Intel® I210AT 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 -5~55 degree 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 -5 up to 55 degree 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

- Default: onboard Intel® Atom™ processor E3826 Dual Core, 1.46GHz
- Option: support Intel® Atom™ processor E3845 Quad Core, 1.91GHz (by request)

### Main Memory

- Onboard 2GB DDR3L 1066/1333 RAM
  - Un-buffered and non-ECC
  - Max up to 4GB for option

### 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® I210AT 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

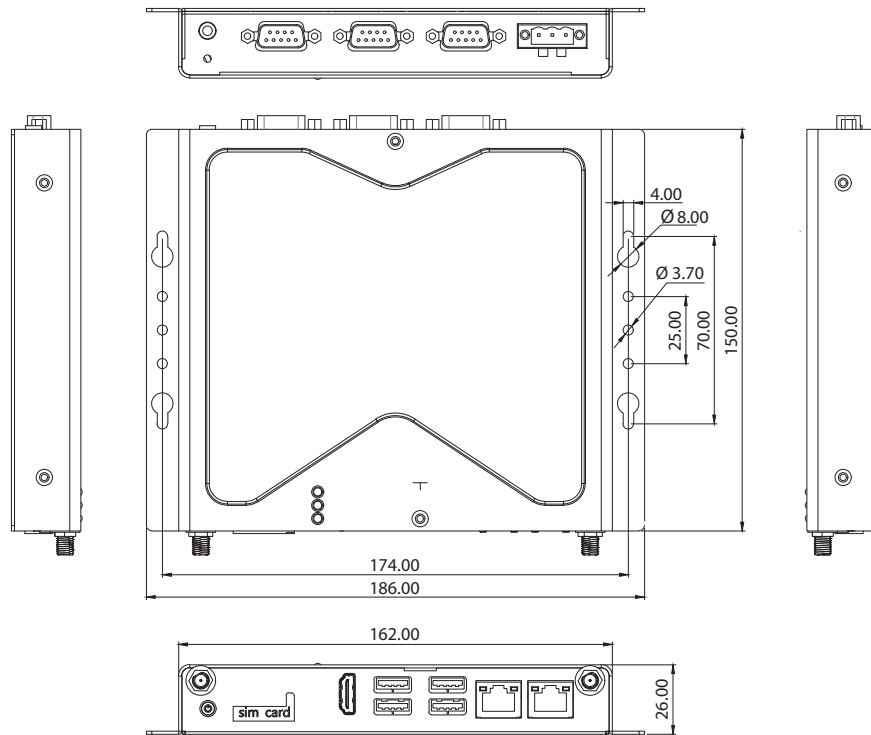
- 3 x mini-PCIe socket for optional Wi-Fi/3.5G modules

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	
Storage	eMMC 16GB	mSATA	eMMC 32GB	mSATA	SSD	
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
		32-bit		32-bit	32-bit	

### 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: -5°C to 55°C  
(according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 75°C

- Relative humidity: 10% to 95% (non-condensing)
- Shock protection:
  - mSATA/EMMC: 50G, half sine, 11ms, IEC60068-27
- 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

## 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: 7400060033X00)



## Main Features

- Onboard Intel® Atom™ processor E3826 dual core, 1.46GHz
- 1 x HDMI display
- 2 x Intel® I210AT 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 -5~55 degree C operating temperature
- Support 24V DC input
- 1 x 2.5" front accessible HDD tray

## 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 -5 up to 55 degree 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

- Default: onboard Intel® Atom™ processor E3826 Dual Core, 1.46GHz
- Option: support Intel® Atom™ processor E3845 Quad Core, 1.91GHz (by request)

### Main Memory

- Onboard 2GB DDR3L 1066/1333 RAM
  - Un-buffered and non-ECC
  - Max up to 4GB for option

### 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® I210AT 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
- Optional 2.5" HDD/SSD in 7mm thickness

### Expansion Slot

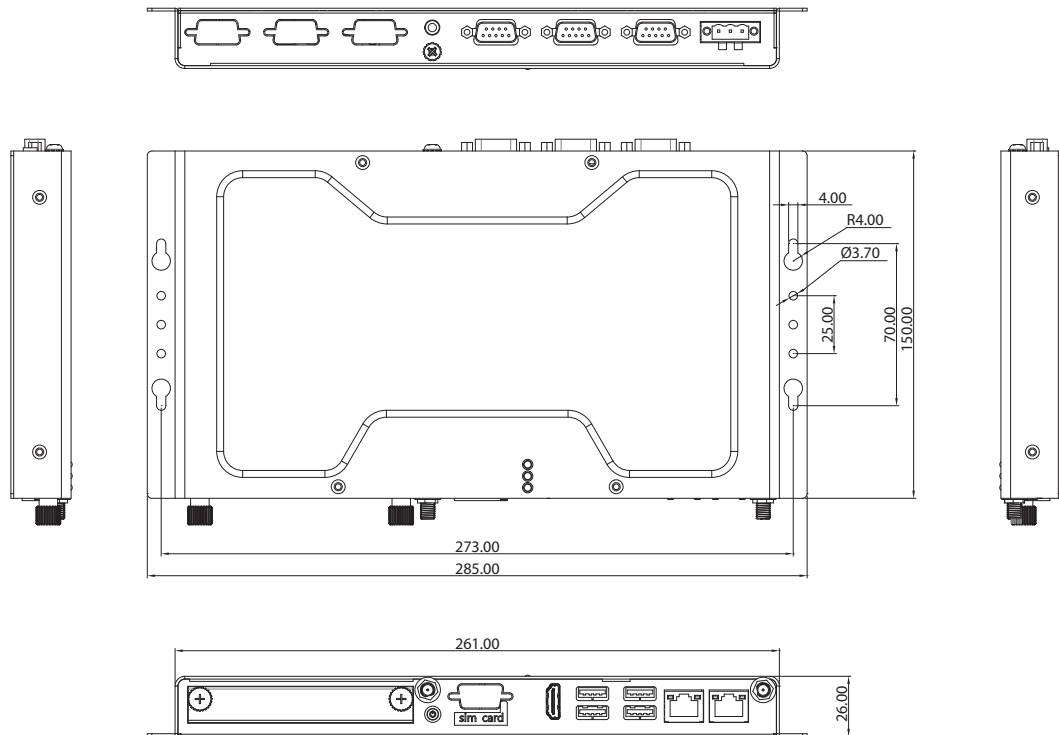
- 3 x mini-PCIe socket for optional Wi-Fi/3.5G modules

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
Storage	eMMC 16GB	mSATA	eMMC 32GB	mSATA	SSD
Memory	2GB		4GB		2GB
OS	Android 4.4	64bit	64bit		
	WIN10 IOT Ent.		64bit	64bit	
	WES8	32bit	32bit	64bit	32bit
	WIN 7 PRO		32bit	64bit	32bit
	WES7E		32bit	64bit	32bit
WEC7		32bit		32bit	32bit

\* Note: only one LAN can be active under Android 4.4

### Dimensions

- 261mm(W) x 26mm(H) x 150mm(D) without wall-mount bracket

### Construction

- Metal chassis with fanless design

### Environment

- Operating temperature:  
Ambient with air flow: -5°C to 55°C  
(according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 75°C

- Relative humidity: 10% to 95% (non-condensing)
- Shock protection:
  - HDD: 20G, half sine, 11ms, IEC60068-27
  - SSD/mSATA: 50G, half sine, 11ms, IEC60068-27
- Vibration protection w/ HDD condition:
  - Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-6
- Vibration protection w/ SSD or mSATA condition:
  - Random: 2Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6

### Certifications

- CE
- FCC Class A
- UL/cUL

## Ordering Information

### ♦PICE50W (P/N:10J00005011X0)

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: 7400060033X00)