

SBOX-2321

Intel Atom® x6416RE w / 2x LAN / 1x DP / 1x DVI-D / 2x COM /
DC-IN 9-36V Embedded Computer



- Intel Atom® x6416RE Quad-core Processor
- Dual Display Output (1 x DP / 1 x DVI-D)
- 2 x 2.5GbE for Embedded IoT Connection
- 3 x M.2 & 1 x mPCIe Slots for Wi-Fi / WWAN / CAN Expansion
- Wide Operating Temperature -40 ~ 70°C for Harsh Environment
- Dual SIM for Network Redundancy
- Industrial Fanless Design

EVSE HMI Applications

**1 x DVI for Infotainment Display**

For advertisements or information displayed on the EVSE.

**1 x DP for EVSE HMI Touch Display**

To display charging status and payment information

**2 x M.2 + 1 x mPCIe for WWAN or WLAN**

3 x expansion slots for various wireless or LTE modules to provide EV owners with a variety of services or CPO server communication.

**2 x 2.5GbE for EVSE Control System**

To connect to the PLC control system. Standard Industrial Ethernet controller that complies with OCPP protocol connection.

Support EVSE Controller Communication

Power
Module

ISO 15118

Overvoltage/current
Protection

Specifications

System

Processor

- Intel Atom® x6416RE Quad-core Processor 1.7 GHz
- Intel Atom® x6214RE Dual-core Processor 1.4 GHz

Graphics

- Intel® UHD Graphics

Memory

- 1 x DDR4-3200 SO-DIMM up to 32 GB

Security

- Infineon® TPM 2.0

Watchdog

- 1 ~ 255 Level Reset Setting

Interface

Ethernet

- 2 x Intel® 2.5GbE Support TSN H/W Architecture

USB

- 2 x USB 3.2 10 Gbps
- 2 x USB 2.0

Video

- 1 x DP 1.4 / 1 x DVI-D (*Single-link cable only)

Audio

- 2 x 3.5mm TRS Jack for stereo MIC-in and Line-out

Serial Port

- 2 x RS-232/422/485 (the 3rd for optional)

GPIO

- 1 x DB-9 for 4 x DI / 4 x DO (12VDC / 100mA)

SIM Card

- 2 x SIM card slots

Antenna

- 4 x Pre-cutting SMA antenna holes

Internal Expansion

M.2

- 1 x M.2 2230 Key E slot
- 1 x M.2 3042/52 Key B slot

mPCIe

- 1 x mPCIe slot

Storage

Type

- 1 x SATA 6Gb/s for 2.5" SATA storage
- 1 x M.2 2280 Key M slot for NVMe/SATA SSD

Software

Operating System Support

- Windows 10 IoT LTSC 64-bit
- Windows 11 IoT 64-bit
- Ubuntu 22.04 LTS 64-bit

Environmental

Operating Temp.

- -40 ~ 70°C w/ 0.6m/s airflow

Storage Temp.

- -40 ~ 85°C

Relative Humidity

- 10% RH ~ 90% RH (non-condensing)

Certification / Standard

- CE, FCC Part-15 Class A

Power

Power Input

- 9 ~ 36VDC Terminal Block w/ OCP and OVP protection

Mechanical

Construction

- Aluminum Alloy

Thermal Design

- Fanless Passive Cooling Design

Mounting Method

- Wall-mounting

Weight

- 1.48kg

Dimensions

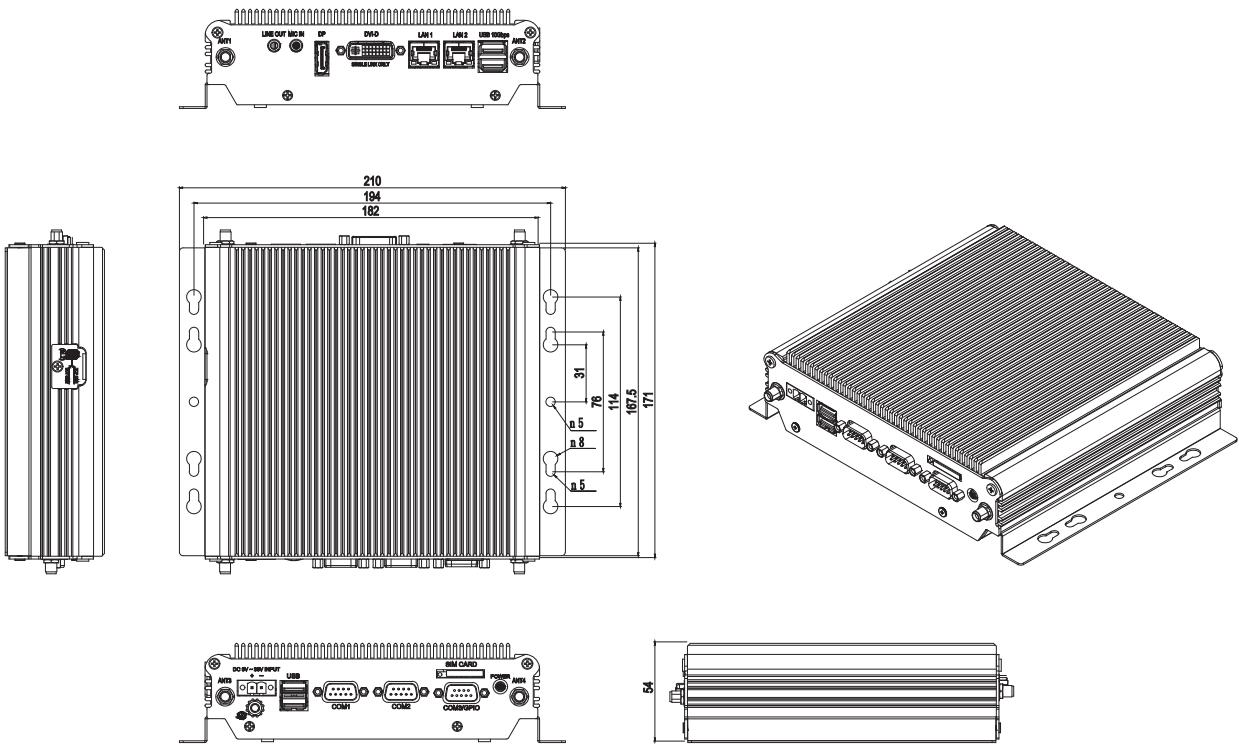
- 182 (L) x 171 (W) x 54 (H) mm (w/o Mounting bracket)

Packaging

- 98% of Sustainable/Recyclable Packaging

Dimensions

Unit : mm



Ordering Information

Model Number	SBOX-2321-zz; zz=A4=Atom x6416RE, zz=A2=Atom x6214RE
Description	Intel Atom® x6416RE w/ 2x LAN/ 1x DP/ 1x DVI-D/ 2x COM/ DC-IN 9-36V Embedded Computer
State of Origin	Made in Taiwan

Optional Accessories

Memory	DDR4 SO-DIMM 3200, 8GB~32GB (-40°~85°C)
SSD	M.2 2280 Key B+M SATA SSD TLC 64GB~1TB (-40°~85°C)
NVMe SSD	M.2 2280 Key M NVMe TLC 256GB~1TB (-40°~85°C)
Wi-Fi / Bluetooth	M.2 2230 Key A+E Module
CAN Bus	mPCIe CAN Bus Module
5G / LTE	M.2 3042/3052 Key B Module

All specifications are subject to change without notice.