

AMAX-5570

Ultra Compact Control Platform with
Intel Atom Processor, 64GB eMMC,
2 x LAN, 2 x USB, 2 x CAN, 2 x COM, and
Slice IO expansion



Features

- Intel® Atom® quad-core x6413E processor
- 4 GB DDR4 onboard memory
- 64GB eMMC on board storage
- Optimized I/O with 2 x GbE, 2 x USB, 2 x CAN, 2 x COM, 1 x HDMI
- Full-size mPCIe and M.2 B key slot for flexible expansion
- Built-in TPM2.0 for hardware-based security
- System ground isolation and port isolation of CAN/COM.
- IEC 61010 certified for industrial applications

Introduction

AMAX-5570 is specially designed for machine and equipment builders, with efficient Intel Atom® 4 core CPU series processors and optimized local expansion slots for general IT and OT applications. On board eMMC storage design minimizes the overall size and allows scalable local expansion with mPCIe and M.2 B key ports for further storage or wireless communication requirements. Extra Wi-Fi or cellular modules can be installed for uploading data to cloud servers.

Specifications

General

- **Certification** CE, FCC, UL, BSMI
- **Dimensions (W x D x H)** 48.5 x 70 x 100 mm/1.9 x 2.8 x 3.9 in
- **Enclosure** Aluminum
- **Mount Options** DIN-rail
- **Net Weight** 0.8kg/1.3lb
- **Power Requirement** 24V_{DC}
- **Power Consumption** 15.8W (typical), 35W (max.)
- **Operating System** Windows 10 LTSC, Ubuntu 20.04, Ubuntu Core 20

System Hardware

- **BIOS** AMI EFI X64
- **Watchdog Timer** Programmable timer with 255 intervals (1 ~ 255 sec)
- **Processor** Intel® Atom® x6413E quad-core, 1.5 GHz
- **Memory** 4 GB DDR4 2666 MHz onboard
- **Graphics Engine** Intel® UHD Graphics
- **Ethernet** 2 x Realtek RTL8119i GbE (LAN)
1 x Realtek RTL8119i GbE (Slice IO)
- **LED Indicators** Power, Run (programmable), LAN (Active, Status)
- **Storage** 64 GB eMMC onboard
mSATA shared with mPCIe slot
2242 SATA shared with M.2 B key
- **Expansion** 1 x Full-size mPCIe slot (SATA/PCIe/USB2.0 signal)
1 x M.2 B key slot(SATA/USB3.0 signal)
- **Hardware Security** TPM2.0 (Library Reversion 1.38)

I/O Interfaces

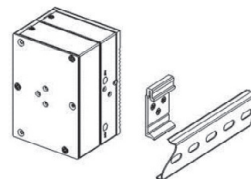
- **LAN** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u
1000BASE-T Fast Ethernet
- **USB** 2 x USB 3.2 (Gen 1)
- **Display Output** 1 x HDMI (1920 x 1080 @60Hz)
- **Power Connector** 1 x 2-pin terminal block

Environment

- **Operating Temperature** -20 ~ 60 °C/-4 ~ 140 °F @ 5 ~ 85% RH with 0.7 m/s
- **Storage Temperature** -40 ~ 85 °C/-40 ~ 185 °F
- **Relative Humidity** 10 ~ 95% RH @ 40 °C/104 °F, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Resistance** Operating, IEC 60068-2-64, 2 Grms, random,
5 ~ 500 Hz, 1hr/axis (mSATA)
- **IP Rating** IP30

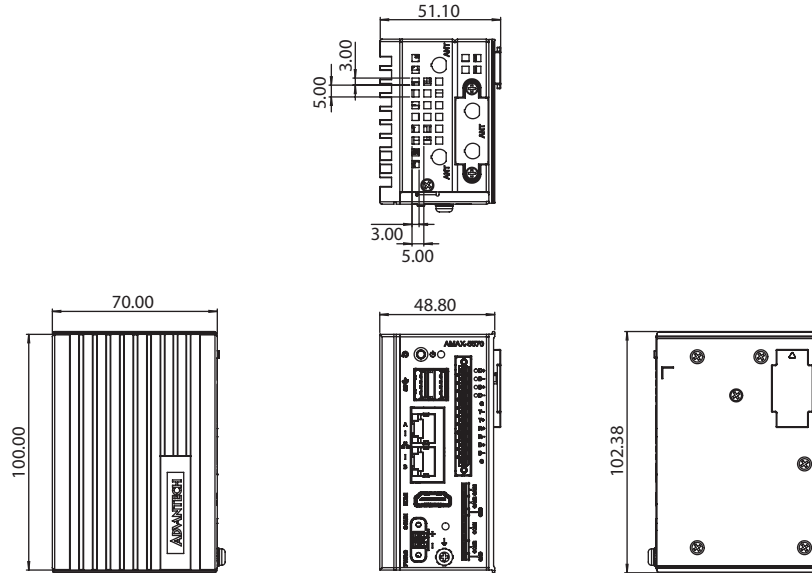
Installation Scenario

DIN-rail Mount

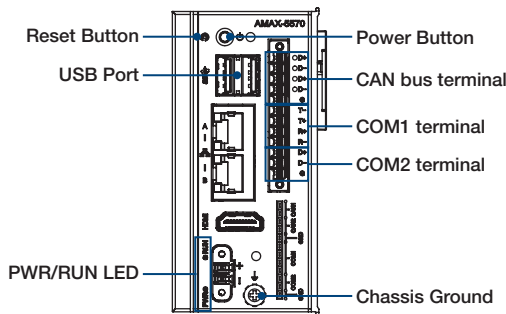


Dimensions

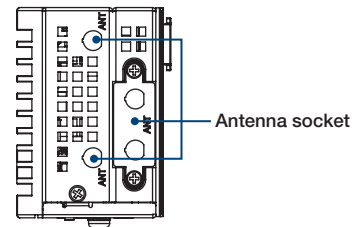
Unit: mm



Front I/O



Top I/O



Ordering Information

- AMAX-5570-E2200A** Intel® Atom® x6413E quad-core CPU, 4 GB RAM, 64GB eMMC, 2 x GbE, 2 x CAN, 2 x COM

Embedded O/S

- TBD

Optional Accessories

DIN-Rail Power Supply

- UNO-IPS2460-AE** A/D 100-240V 60W 24V DIN-rail power supply
- 96PSD-A60W24-MM** A/D 100-240V 60W 24V MDR DIN-rail power supply

Adapters & Power cords

- PWR-247-DE** 60W AC to DC UNO series power adapter
- 1702002600** Power Cable US Plug 1.8 M
- 1702002605** Power Cable EU Plug 1.8 M
- 1702031801** Power Cable UK Plug 1.8 M
- 1700000596-11** Power Cable China/Australia Plug 1.8 M

Wi-Fi Module (mPCIe) and Antenna

- EWM-W193H01E** Wifi 802.11ac/a/b/g/n, Bluetooth 5.0
- 9656EWMG00E** Half-to-full-size mPCIe bracket
- 1750008800-01** Coaxial cable for antenna L100mm
- 1750008717-01** Antenna L=10.9 cm 50 Ohm

LTE Module (mPCIe) and Antenna

- 968AD00589** Quectel EG25G LTE Module Cat. 4, mPCIe with sim holder
- 1750007990-01** Antenna 4G/LTE full band L=11 cm 50 Ohm
- 1750006264** SMA(F)/MHF cable, 15cm