

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
- AMAX-5000 EtherCAT Slice IO expansion
- Full-size mPCIe and M.2 B key slot expansion
- Dual industrial fieldbus communication for EtherCAT and CAN bus
- COM/CAN port Isolation design
- System Ground Isolation design
- 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)** 48.8 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, ADV Embedded Linux (Ubuntu 20.04)

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)
AMAX-5000 series IO module expansion (1A supply without power module)
- **Hardware Security** TPM2.0 (Library Reversion 1.38)

I/O Interfaces

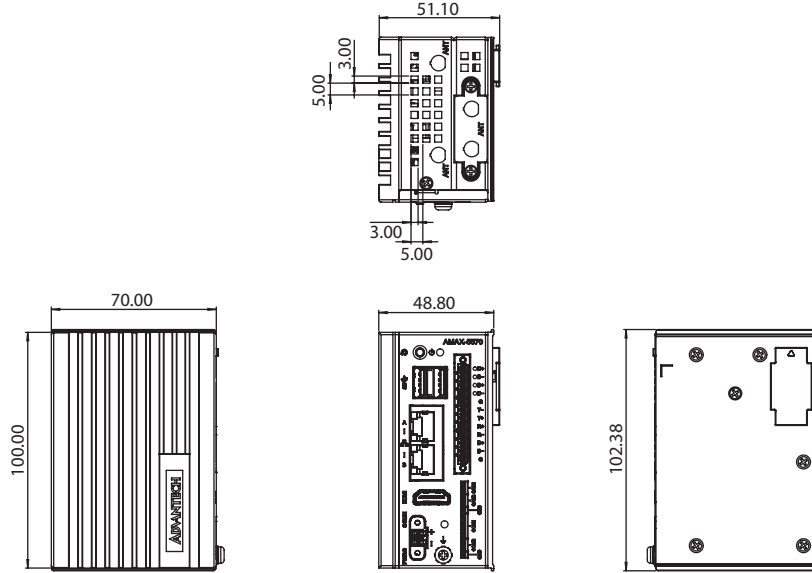
- **LAN** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
- **Serial Port** 1 x RS-232/422/485 and 1 x RS-485, 50bps~115.2 kbps (terminal block) Isolated voltage 2500V_{DC}
- **CAN bus** 2 x CAN port, Adjustment up to 1Mbps (terminal block)
Hardware support CAN 2.0 A/B
Linux support Socket CAN, advCAN
Isolated voltage 2500V_{DC}
- **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

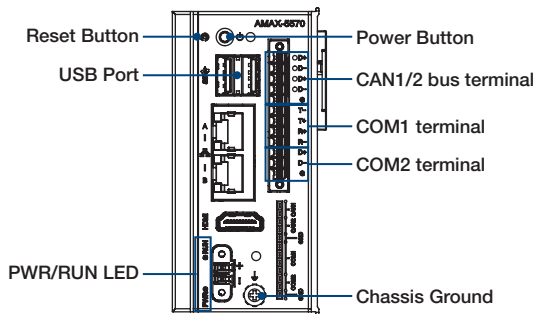
- **Operating Temperature** -20 ~ 60 °C/-4 ~ 140 °F @ 5 ~ 85% RH with 0.7 m/s (without expansion)
- **Storage Temperature** -40 ~ 85 °C/-40 ~ 185 °F
- **Relative Humidity** Operating, 95% RH@40°C, Non-Condensing
Non-Operating, 95% RH@60°C, Non-Condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Resistance** Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis
- **IP Rating** IP20

Dimensions

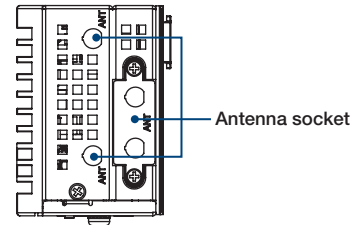
Unit: mm



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

- 20704WX1ES0013 Img W10LTSC v6.08 B027 AMAX-5570 Entry

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 with sim holder
- 1750007990-01 Antenna 4G/LTE full band L=11 cm 50 Ohm
- 17500006264 SMA(F)/MHF cable, 15cm