

# AMAX-5570E

**Modular Control Platform with 4 x LAN,  
2 x USB, 2 x COM, 2-slot AMAX-5400/  
iDAQ-964 and Standard AMAX-5000  
Expansion**



CE FCC RoHS  
COMPLIANT  
PRODUCT

## Features

- Intel® Atom® quad-core x6413E processor
- 4 GB DDR4 onboard memory
- 128GB eMMC on board storage
- 2-slot AMAX-5400/iDAQ-964 PCIe expansion
- AMAX-5000 EtherCAT Slice IO expansion
- Full-size mPCIe slot for SATA storage and NVRAM
- Dual power design for DC redundancy input function
- COM port individual Isolation design
- EMC compliance for energy management and Battery Energy Storage System (IEC-61000-4 Industrial requirement)

## Introduction

The AMAX-5570E is purpose-built for energy management and Battery Energy Storage Systems (BESS), meeting EMC standards at levels 3 and 4 of IEC-61000-4 testing. Powered by Intel Atom 4-core processors, onboard memory, and eMMC storage, it features an open platform that's easy to install in control cabinets. This flexible design allows IT developers and OT programmers to seamlessly implement automation solutions. Furthermore, its integration with Advantech's DeviceOn and EdgeSync enhances the user experience for a wide range of IIoT applications.

## Specifications

### General

- **Certification** CE, FCC
- **Dimensions (W x D x H)** 74.8 x 70 x 100 mm/2.9 x 2.7 x 3.9 in (w/o DIN rail kit)
- **Enclosure** SGCC
- **Mount Options** DIN-rail
- **Net Weight** 0.78kg/1.3lb
- **Power Requirement** 24V<sub>DC</sub> ± 20%
- **Power Consumption** 15.8W (typical), 79.2W (max.)
- **Operating System** Windows 10 IoT, ADV Embedded Linux (support from 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** 4GB/8GB DDR4 2666 MHz onboard
- **Graphics Engine** Intel® UHD Graphics
- **Ethernet** 4 x Realtek RTL8119i GbE (LAN)  
1 x Realtek RTL8119i GbE (Slice IO)
- **LED Indicators** Power, Run (programmable), LAN (Active, Status)
- **Storage** 128 GB eMMC onboard  
mSATA shared with mPCIe slot
- **Expansion** 1 x Full-size mPCIe slot (SATA/PCIe/USB2.0 signal)  
2 x slots AMAX-5400/iDAQ-964 module expansion  
AMAX-5000 series IO module expansion  
(Need to add AMAX-5001 as first power supply)

- **Hardware Security** TPM2.0

### I/O Interfaces

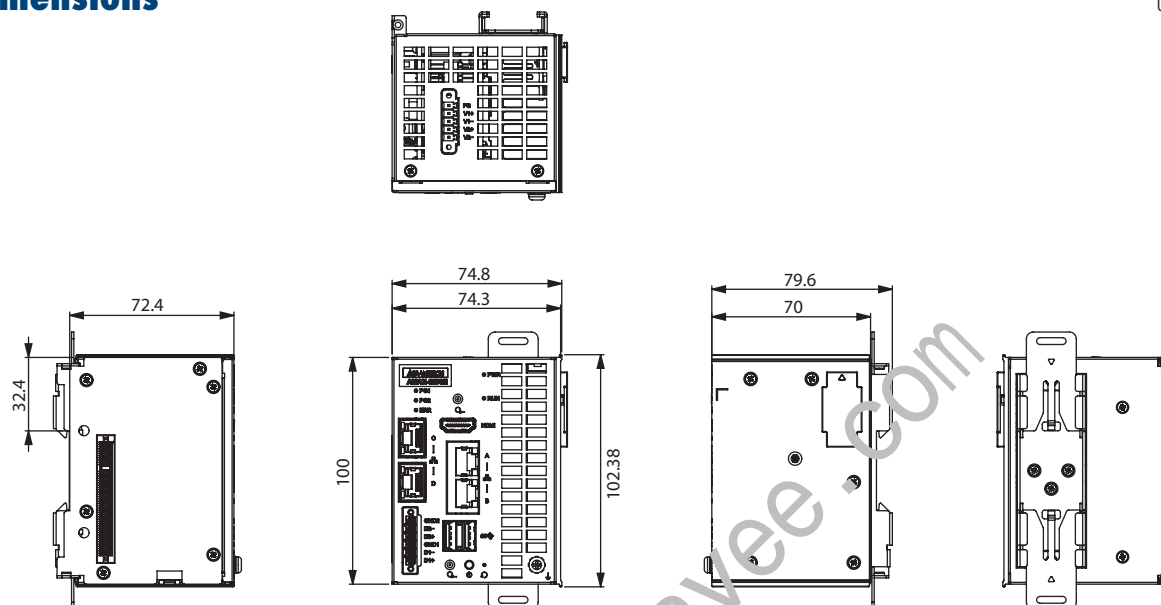
- **LAN** LAN A/B/C/D: RJ45, 10/100/1000Mbps  
Slice IO: GoldFinger contact, 10/100Mbps  
\*\*<Note> Due to CPU feature, max. 2 LAN ports could be configured into 1000Mbps, rest LAN ports must run under 100Mbps to ensure system stability
- **Serial Port** 2 x RS-485, 50bps~115.2 kbps (terminal block) Isolated voltage 2500V<sub>DC</sub>
- **USB** 2 x USB 3.2 (Gen 1)
- **Display Output** 1 x HDMI (1920 x 1080 @60Hz)
- **Power Input** 1 x 5-pin terminal block (Dual power input)

### Environment

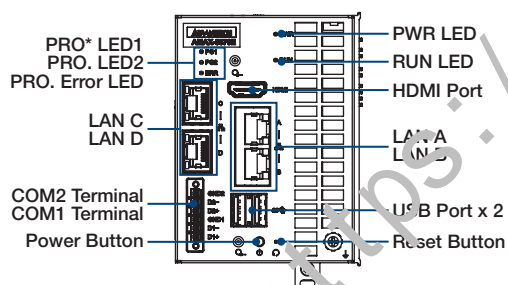
- **Operating Temperature** -25 ~ 60°C/-13 ~ 140°F @ 5 ~ 85% RH with 0.7 m/s
- **Storage Temperature** -40 ~ 85°C/-40 ~ 185°F
- **Relative Humidity** Operating, 95% RH@40°C, Non-Condensing  
Non-Operating, 95% RH@60°C, Non-Condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Resistance** Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis

## Dimensions

Unit: mm

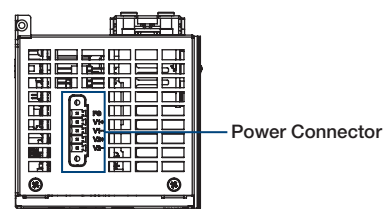


## Front I/O



\*PRO means programmable

## Top I/O



## Ordering Information

- AMAX-5570E-0100X6A x6413E, 4G/128G, 4xLAN, 2xCOM, ECAT&iDAQ exp.
- AMAX-5570E-0200X6A x6413E, 8G/128G, 4xLAN, 2xCOM, ECAT&iDAQ exp.

## Embedded OS

- 20701WX1ES0010 Img W10LTSC v6.09 B014 AMAX-5570(E)
- 20701U20DS0006 Image AdvLinuxTu-IOTG\_x64 V3.4.4

## Optional Accessories

### DIN-Rail Power Supply

- 96PSD-A120W24-MN A/D 100-240V 120W 24V NDR DIN RAIL

### Adapters & Power Cords

- PWR-247-DE 100-240V 60W 24V 2.5A Power supply
- 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