# ADAM-5630

## Edge Intelligent DA & C Platform

## Features

- Support Modbus/RTU, Modbus/TCP Master and Slave function libraries
- Support Web server for I/O configuration and monitoring
- IEC 61131-3 (KW) Linux C, and Python programming based on Linux operating system
- Built-in real-time clock and watchdog timer
- 1 micro SD slot expansion for data storage
- 4 serial communication ports onboard
- 2 Ethernet Ports
- 4 or 8 I/O slot expansion

## Specifications

### Control System

- **CPU** — TI Cortex-A8 AM3352 600MHz
- **Memory** — 512MB, DDR3L
- **Battery memory** — 128K
- **RTC (Real Time Clock)** — Provide second, minute, hour, date, day of week, month, year
- **OS** — RT-Linux V3.12
- **Storage** — 1 x 1GB NAND Flash (system)
  1 x Mirco-SD (Storage)
- **Programming** — IEC 61131-3 (KW) Linux C, Python
- **Watch dog** — Yes
- **I/O Slot** — Optional 8 or 4 slots
- **LED Indicators** — PWR,RUN,ERR,BAT,LED1/2/3/4
- **Display** — VGA, Resolution 800 x 600
- **USB** — 2 x USB 2.0

### Serial Communication

- **Max. Nodes** — 256 (in RS-485 daisy-chain network)
- **Distance** — 1.2Km (4,000feet in RS-485 mode)
- **Speed** — 50-115200 bps
- **Isolation** — 2500 $V_{DC}$ (COM1,2,3 only)
- **Connector** — COM1: Screw terminal (2-PIN RS-232/485)
  COM2: Screw terminal (RS-485)
  COM3: Screw terminal (RS-485)
  COM4: DB9-M (RS-232/485)

### Ethernet Communication

- **Connector** — 2 x RJ45
- **Distance** — 100 m
- **Speed** — 10/100/1000 Mbps

### System Software

- **Embedded Service** — Web Server, FTP Sever, Telnet Server, SSH Server, SNMP Server
- **SDK Provided** — Standard SDK by Linux C

### Power Consumption

- **Power Consumption** — 8W
- **Power input** — 10 ~ 30 $V_{DC}$
- **Reverse Protection** — Yes

### General

- **Certification** — CE,FCC Class A (No RED certification)
- **Dimensions** — 4-slots 231 x 110 x 75 mm
  8-slots 355 x 110 x 75 mm
- **Enclosure** — ABS-PC
- **Mounting** — DIN-Rail, Wall-Mount

### Environment

- **Humidity** — 5 ~ 95% non-condensing
- **Operating Temperature** — -40 ~ 70°C
- **Storing Temperature** — -40 ~ 85°C

## Order information

- **ADAM-5630-AE(preliminary)** — 4-slot RISC-based Modular DA&C Controller
- **ADAM-5630E-AE** — 8-slot RISC-based Modular DA&C Controller