

# ADAM-5510 Series

## 4/8 slots PC-based Controller



ADAM-5510E

ADAM-5510



### Features

- Supports Modbus/RTU, Modbus/TCP Master and Slave function libraries
- Windows-based utility
- Optional support C Programming and IEC-61131-3 standard
- Complete set of I/O modules
- Built-in real-time clock and watchdog timer
- ROM-DOS operating system
- 4 serial communication ports
- Optional support Ethernet Interface with network function, such as Web Server, FTP Server and Email Alarm.
- 4 or 8 I/O slot expansion

### Introduction

The ADAM-5510 Series are ideal for PC-based data acquisition and control applications. They are compact, controllers with an Intel x86- based CPU running Datalight ROM-DOS. Built-in battery backup SRAM is the best choice for complex logic or data storage applications. For professional C/C++ programmers, the ADAM-5510 Series application programs may be written and compiled in Borland C++ 3.0, and downloaded to the controller.

For user who familiar with PLC programming environment, we provide the option for customer to use the KW softlogic which supports 5 standard IEC 61131-3 programming languages, including LD/FB/SFC/IL/ST.

### Specifications

#### Control System

- **CPU** 80188, 16-bit microprocessor
- **I/O Slots** Optional 8 or 4 slots
- **LED Indicators** Power, CPU, communications and battery
- **Memory** Flash disk: 1 MB (960 KB for user applications)  
Flash memory: 256 KB  
Flash ROM: 256 KB  
RAM: 640 KB (up to 384 KB with battery backup)
- **Memory (Softlogic version)** Flash disk: 512KB  
Flash memory: 768KB  
Flash ROM: 256KB  
RAM: 640KB SRAM, 32KB with battery backup (ADAM-5510KW)  
RAM: 768KB SRAM, 17KB with battery backup (ADAM-5510KW/TCP, ADAM-5510EKW/TP)  
ROM-DOS (MS-DOS 6.22 Compatible)
- **Operating System** Yes
- **Real-time Clock** Yes
- **Watchdog Timer** Yes

#### Serial Communication

- **Max. Nodes** 256 (in RS-485 daisy-chain network)
- **Distance** 1.2 km (4,000 feet)
- **Speed** 1,200 bps ~ 115.2 kbps (9600, 19200, 38400 bps for Softlogic version)
- **Isolation** 2500 V<sub>DC</sub> (COM2 only)

#### Ethernet Communication

- **Medium** Cat.5 cable with RJ-45 connector
- **Distance** 100 m
- **Speed** 10/100Base-T

#### Power

- **Power Consumption** 4 W @ 24 V<sub>DC</sub> (not including I/O modules)
- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>
- **Isolation** 3000 V<sub>DC</sub>
- **Reverse Protection** Yes

#### Software

- **ROM DOS version** C library for Borland C++ 3.0
- **Softlogic version** Development tool : KW Multiprog  
Runtime kernel : ProConOS

#### General

- **Certification** CE, FCC Class A
- **Connectors** COM1 : DB9-M  
COM2 : Screw terminal(RS-485)  
COM3 : DB9-F (RS-232/Programming)  
COM4 : DB9-M (RS-232/485)  
Power : Screw terminal  
LAN : RJ-45 (option)
- **Dimensions** 4-slot: 231 x 110 x 75 mm  
8-slot: 355 x 110 x 75 mm
- **Enclosure** ABS+PC
- **Mounting** DIN-rail, stack, wall

#### Environment

- **Humidity** 5 ~ 95%, non-condensing
- **Operating Temperature** -10 ~ 70°C (14 ~ 158°F)
- **Storing Temperature** -25 ~ 85°C (-13 ~ 185°F)

### Ordering Information

- **ADAM-5510M** 4-slot PC-based Controller
- **ADAM-5510E** 8-slot PC-based Controller
- **ADAM-5510/TCP** 4-slot PC-based Controller with Ethernet
- **ADAM-5510E/TCP** 8-slot PC-based Controller with Ethernet
- **ADAM-5510KW** 4-slot Softlogic Controller
- **ADAM-5510KW/TCP** 4-slot Softlogic Controller with Ethernet
- **ADAM-5510EKW/TP** 8-slot Softlogic Controller with Ethernet
- **MPROG-PRO535E** KW Multiprog Pro v5.35 (128k bytes I/O, Win7 support)