## 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 users who are familiar with PLC programming environment, we provide the option for customers 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
  - RAM: 640 KB (up to 384 KB with battery backup)
- **Operating System**: ROM-DOS (MS-DOS 6.22 Compatible)
- **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 DC (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 Vdc (not including I/O modules)
- **Power Input**: Unregulated 10 – 30 Vdc
- **Isolation**: 3000 Vdc
- **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/TP**: 4-slot PC-based Controller with Ethernet
- **ADAM-5510/E/TP**: 8-slot PC-based Controller with Ethernet
- **ADAM-5510KW**: 4-slot Softlogic Controller
- **ADAM-5510KW/TP**: 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)

All product specifications are subject to change without notice.