

# ADAM-5510KW ADAM-5510EKW

PC-based SoftLogic Controller

8-slot PC-based SoftLogic Controller

NEW



CE

## Features

- IEC-61131-3 standard package
- Supports LD/FB/SFC/IL/ST language
- Graphical programming interface
- Cross programming language compiling capability
- Supports floating point calculation
- Supports AI/AO/DI/DO/Counter Function Blocks
- Powerful debug tool
- Built-in Modbus/RTU Master and Slave
- Supports up to 128 Local I/O Points
- Handles typical 32 Modbus/RTU remote I/O modules
- Supports more than 9000 coils in LD language
- Supports 3 serial ports including 1 RS-485 and 2 RS-232/485 ports

## Introduction

ADAM-5510EKW and ADAM-5510KW are PC-based Soft-Logic Controllers. They feature 5 standard IEC61131-3 programming languages so PLC users can develop control strategies in their familiar programming languages. The strong MULTIPROG software and stable ProConOS make ADAM-5510EKW and ADAM-5510KW the best choice for PC-based Soft-logic controllers in the market.

ProConOS, (Programmable Controller Operating System), has over 250,000+ installations, and is a pre-emptive, multi-tasking run-time software providing deterministic operation down to one millisecond and runs applications developed with MULTIPROG, a fully-featured IEC 61131-3 development environment. With this KW Software distribution agreement, Advantech has bundled the ProConOS run-time software on ADAM-5510EKW and ADAM-5510KW Controllers creating a SoftLogic Solution. It will greatly benefit PLC users to enjoy the PC-based advantage of ADAM-5510EKW and ADAM-5510KW.

Different from the original ADAM-5510 hardware, the ADAM-5510EKW and ADAM-5510KW includes more memory capacity to raise system efficiency and users' programming flexibility. The main unit of ADAM-5510EKW and ADAM-5510KW include a 1.5 MB flash memory and 640 KB SRAM which includes battery backup RAM up to 32 KB. In addition, 4 COM ports enrich the communication capacity of ADAM-5510EKW and ADAM-5510KW to integrate with remote I/O or other 3rd party devices based on the Modbus/RTU protocol.

For advanced system integration, the ADAM-5510EKW and ADAM-5510KW are built with a Modbus/RTU Server. Therefore, it also supports Modbus/RTU protocol to communicate with any Modbus® devices as well as HMI Software/User's APs built with Modbus driver or Modbus/RTU OPC Server, both of which are included in the SCADA systems.

## Specifications

### System

- **CPU** 16-bit microprocessor
- **Memory** 1.5 MB flash memory: 640 KB SRAM, 32 KB with battery backup
- **Operating System** ROM-DOS
- **Real-time Clock** Yes
- **Watchdog Timer** Yes
- **COM1** RS-232/485 (ADAM-5510EKW); RS-232 (ADAM-5510KW)
- **COM2** RS-485
- **COM3** RS-232 (Reserved)
- **COM4** RS-232/485
- **Comm. Protocol** Modbus/RTU
- **I/O Capacity** 8 Slots
- **Status Display** Power, CPU, communication and battery
- **CPU Power Consumption** 1.0 W

### Isolation

- **Power Input** 3000 V<sub>DC</sub>
- **Communication** 2500 V<sub>DC</sub> (COM2 only)

### Network

- **Medium** RS-485 (2-wire)

- **Speeds (bps)** 9600, 19200 and 38400 bps
- **Maximum Nodes** up to 31 multi-drop system per serial port

### Software Support

- **KW MULTIPROG®**

### Power

- **Unregulated** + 10 to + 30 V<sub>DC</sub>
- **Protected against Power Reversal**

### Mechanical

- **Case** KJW with captive mounting hardware
- **Plug-in Screw Terminal Block** Accepts 0.5 mm<sup>2</sup> to 2.5 mm<sup>2</sup>, 1 - #12 or 2 - #14 to #22 AWG

### Environment

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

## Ordering Information

- **ADAM-5510KW** PC-based SoftLogic Controller
- **ADAM-5510EKW** 8-slot PC-based SoftLogic Controller
- **PCLS-OPC/MOD** Modbus OPC Server
- **PCLS-ADAMVIEW32** ADAMView Data Acquisition Software