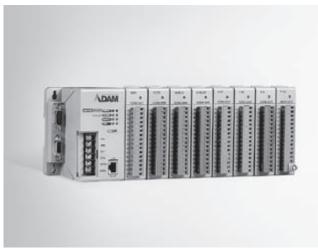# ADAM-5510KW/TCP
4-slot SoftLogic Controller with Ethernet

ADAM-5510EKW/TP
8-slot SoftLogic Controller with Ethernet

Features

- 10/100 Base-T Ethernet interface
- Built-in Modbus/TCP server
- Supports Modbus/TCP client
- Supports Modbus/RTU Master
- Supports Modbus/RTU Slave for DOS environment
- Supports Multiprog via Ethernet
- IEC 61131-3 standard package
- Supports LD/FB/SFC/IL/ST languages
- Cross-language compiling program
- 8 I/O slots base and handles up to 128 local I/O points
- Supports AI/AO/DI/DO/Counter function blocks

Introduction

The ADAM-5510EKW/TP is an Ethernet-enabled SoftLogic Controller. In addition to the features of ADAM-5510KW and ADAM-5510EKW, the ADAM-5510EKW/TP has Ethernet features including Modbus/TCP Server, Modbus/TCP Client and Multiprog via Ethernet functions. Therefore, users can easily and quickly complete their programming based on Ethernet architecture.

Standard Modbus Interface

For advanced system integration, the ADAM-5510EKW/TP supports not only Modbus/RTU Master and Slave functions via serial ports, but also the Modbus/TCP Client to retrieve data from remote I/O, and Modbus/TCP Server to send data back to the HMI/SCADA Software via Ethernet port. Furthermore, the ADAM-5510EKW/TP allows users to remotely maintain multiple ADAM-5510EKW/TP controllers by running Multiprog programming software via Ethernet.

Specifications

Control System

- **CPU** — 16-bit microprocessor
- **I/O Capacity** — 4 slots (ADAM-5510KW/TCP)
  8 slots (ADAM-5510EKW/TP)
- **LED Indicators** — Power, CPU, communication, and battery
- **Memory** — Flash disk: 512 KB
  Flash memory: 768 KB
  Flash ROM: 256 KB
  RAM: 768 KB SRAM, 17 KB with battery backup
- **Operating System** — ROM-DOS
- **Real-time Clock** — Yes
- **Watchdog Timer** — Yes

Communications (Ethernet)

- **Medium** — Cat.5 cable with RJ-45 connectors
- **Transmission Speed** — 100 Mbps (10/100Base-T)

Communications (Serial)

- **Max. Nodes** — 32 (in RS-485 daisy-chain network)
- **Medium** — RS-485 (2-wire)
- **Protocols** — Modbus/RTU, Modbus/TCP (Max. 8 Connection with Modbus/TCP)
- **Transmission Speed** — 9,600, 19,200 and 38,400 bps

Protection

- **Power Input** — 3,000 V_{DC}
- **Communication Line Isolation** — 2,500 V_{DC} (COM2 only)
- **Power Reversal Protection** — Yes

Power

- **Power Consumption** — 4 W @ 24 Vdc (not including I/O modules)
- **Power Input** — Unregulated 10 ~ 30 V_{DC}

Software

- **Operating System** — Windows CE .NET
- **Control Software** — KW Multiprog (development tool)
  ProConOS (runtime kernel)

General

- **Certifications** — CE, FCC class A
- **Connectors** — 1 x DB9-M for RS-232/485 (COM1)
  1 x Screw terminal for RS-485 (COM2)
  1 x DB9-F for RS-232/Programming (COM3)
  1 x DB9-M for RS-232/485 (COM4)
  1 x Screw-terminal for power input
  1 x RJ-45 for LAN
- **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)
- **Storage Temperature** — - 25 ~ 85° C (-13 ~ 185° F)

Ordering Information

- **ADAM-5510KW/TCP** — 4-slot Ethernet-enabled SoftLogic Controller
- **ADAM-5510EKW/TP** — 8-slot Ethernet-enabled SoftLogic Controller
- **MPROG-BAS46** — KW Multiprog v4.6 (128-byte I/O)

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