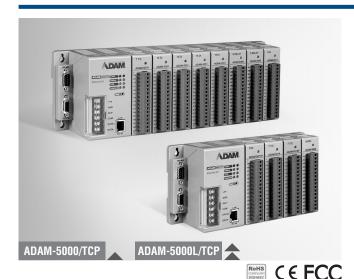
ADAM-5000L/TCP ADAM-5000/TCP

4-slot Distributed DA&C System for Ethernet

8-slot Distributed DA&C System for Ethernet



Features

- ARM 32-bit RISC CPU
- 10/100Base-T auto-negotiation high-speed communication port
- Supports Modbus/TCP for easy integration
- Supports UDP event handling function
- Up to 100 m communication distance w/o repeater
- Allows remote configuration via Ethernet
- Allows concurrent access for 8 host PCs
- 4 I/O slots for up to 64 points and 8 I/O slots for up to 128 points data monitoring and control
- 1500 V_{DC} isolation for Ethernet communication
- Built-in watchdog timer for system auto-reset
- Windows utility
 - I/O modules configuration and calibration
 - Network auto searching
 - Data stream setting
 - Current status monitoring and alarm trigger
- Provides .NET Class LIB to develop applications

Introduction

ADAM-5000L/TCP and ADAM-5000/TCP care both Ethernet-based I/O systems. Without a repeater, ADAM-5000L/TCP and ADAM-5000/TCP can cover a communication distance up to 100 m. This allows remote configuration via Ethernet and eight PCs can simultaneously access the data. The ADAM-5000L/TCP and ADAM-5000/TCP are the solutions for easy configuration and efficient management. It is an ideal and cost-effective solution for eAutomation architecture.

Specifications

Control System

- CPU 32-bit ARM RISC I/O Slots ADAM-5000L/TCP: 4 ADAM-5000/TCP: 8 Flash ROM: 512 KB Memory RAM: 4 MB

 Operating System Real-time OS LED Indicators Power (3.3 V. 5 V)

Communication (Link, Active, 10/100 Mbps, Tx, Rx)

Communications (Ethernet)

 Comm. Distance 100 meters w/o repeater Comm. Protocol Modbus/TCP, TCP, UDP, IP, ARP

Up to 100 Mbps **Data Transfer Rate Event Response Time** < 5 ms

1 x 10/100Base-T (RJ-45) Interface Wiring UTP, category 5 or greater

Communications (Serial)

 Comm. Distance RS-485: 1.2 km (4000 feet)

RS-232: 15 m Comm. Protocol Modbus/RTU Up to 115.2 kbps Data Transfer Rate Interface 1 x DB9-M for RS-485 1 x DB9-F for RS-485 1 x DB9-F for RS-232

Max. Nodes 12 (in RS-485 daisy-chain network for Remote I/O

connection)

Power

 Power Consumption 4.0 W @ 24 Vdc (ADAM-5000L/TCP)

(not including I/O modules) 5.0 W @ 24 Vdc (ADAM-5000/TCP) (not including I/O modules)

 Power Input Unregulated 10 ~ 30 V_{DC}

Software

.NET Class LIB

Windows Utility Network setting, I/O configuration & calibration, data

stream, alarm setting

Modbus/TCP OPC Server

Protection

Communication Line Isolation

3.000 V_{DC}

I/O Module Isolation

3.000 V_{DC} **LAN Communication** 1.500 V_{DC}

Overvoltage Protection Yes Power Reversal Yes

Protection

General

 Certifications CE. FCC class A

Connectors 1 x DB9-M/DB9-F/screw terminal for RS-485

(communication)

1 x DB9-F for RS-232 (internal use) 1 x Screw-terminal for power input

1 x RJ-45 for LAN

Dimensions (W x H x D) ADAM-5000L/TPC: 231 x 110 x 75 mm

ADAM-5000/TCP: 355 x 110 x 75 mm

Enclosure ABS+PC Mounting DIN 35 rail, wall

Environment

 Humidity 5 ~ 95%, non-condensing Operating Temperature $-10 \sim 70^{\circ} \text{ C} (14 \sim 158^{\circ} \text{ F})$ **Storage Temperature** $-25 \sim 85^{\circ} \text{ C } (-13 \sim 185^{\circ} \text{ F})$

Ordering Information

ADAM-5000L/TCP 4-slot Ethernet-based Distributed DA & C System ADAM-5000/TCP 8-slot Ethernet-based Distributed DA & C System