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 C and .NET class library to develop applications
- Support GCL function for easy IO interlocking logic



Introduction

The ADAM-5000L/TCP and ADAM-5000/TPC are both Ethernet-based I/O systems. Without a repeater, the 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 Memory Flash ROM: 512 KB RAM: 4 MB

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

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

Communications (Ethernet)

 Data Transfer Rate Up to 100 Mbps **Event Response Time**

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 Data Transfer Rate Up to 115.2 kbps 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

Power

4.0 W @ 24 V_{DC} (ADAM-5000L/TCP) Power Consumption

(not including I/O modules) 5.0 W @ 24 V_{DC} (ADAM-5000/TCP) (not including I/O modules)

 Power Input Unregulated 10 ~ 30 V_{DC}

Software

C and .NET Class Library

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

Modbus/TCP OPC Server

Protection

Communication Line 3.000 V_{DC} Isolation 3.000 V_{DC} I/O Module Isolation 1.500 V_{DC} **LAN Communication** Overvoltage Protection Yes **Power Reversal Protection**

General

Certification 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/TCP: 231 x 110 x 75 mm

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

 Enclosure ABS+PC Mounting DIN-rail, wall

Environment

Operating 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