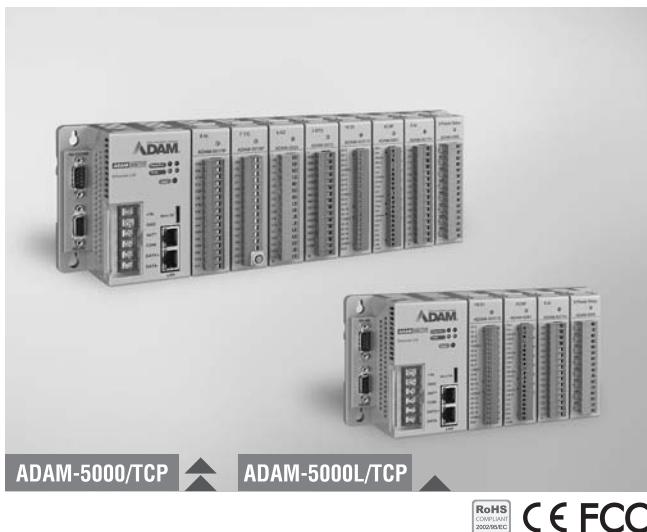


ADAM-5000L/TCP ADAM-5000/TCP

4-slot Distributed DA&C System for Ethernet
8-slot Distributed DA&C System for Ethernet



Features

- Cortex M4 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 16 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/TCP 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 sixteen 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	Cortex M4
▪ I/O Slots	ADAM-5000L/TCP: 4 ADAM-5000/TCP: 8
▪ Memory	Flash ROM: 1 MB
▪ Operating System	Real-time OS
▪ LED Indicators	Power (3.3 V) RUN
▪ Storage	Communication (Link, Active, 10/100 Mbps, Tx, Rx) 1 x MicroSD slot

Communications (Ethernet)

▪ Data Transfer Rate	Up to 100 Mbps
▪ Event Response Time	< 5 ms
▪ Interface	2 x RJ-45 sharing one MAC Address
▪ 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 (System Monitoring)
▪ Max. Nodes	15 (in RS-485 daisy-chain network for Remote I/O connection)

Power

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

▪ API	VS.NET Class Library
▪ 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 Protection	Yes

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 2 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 ~ 70°C (14 ~ 158°F)
▪ Storage Temperature	- 25 ~ 85°C (-13 ~ 185°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