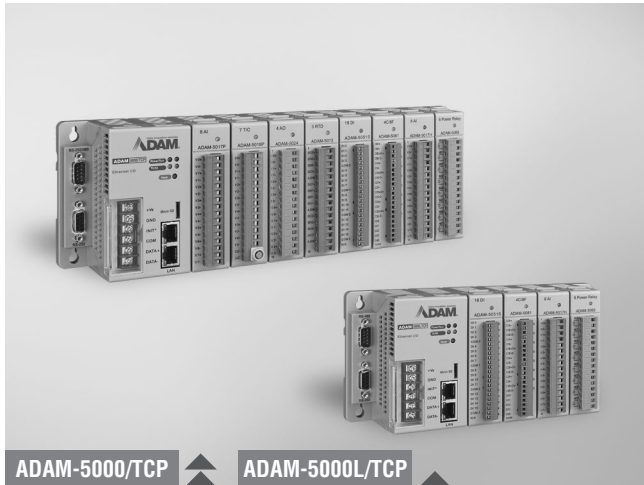# ADAM-5000L/TCP
ADAM-5000/TCP

4-slot Distributed DA&C System for Ethernet

8-slot Distributed DA&C System for Ethernet

ADAM-5000/TCP   ADAM-5000L/TCP

RoHS COMPLIANT 2002/95/EC CE FCC

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

All product specifications are subject to change without notice   Last updated : 5-May-2015