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, 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)

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 Vdc

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 Vrms 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 GOI function for easy I/O interlocking logic

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 Vrms
- I/O Module Isolation: 3,000 Vrms
- LAN Communication: 1,500 Vrms
- 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

Online Download: www.advantech.com/products
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All product specifications are subject to change without notice