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)

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

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 Vdc
- I/O Module Isolation: 3.000 Vdc
- LAN Communication: 1.500 Vdc
- 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