ADAM-6520 Series

5-port 10/100 Mbps Industrial Ethernet Switches



CE FCC

Features

- Supports full/half duplex flow control
- Supports MDI/MDI-X auto crossover
- Provides broadcast storm protection
- Embedded with a switch controller, supports auto-negotiation
- Supports +10 ~ 30 V_{DC} voltage power input
- Provides surge (EFT) protection 3,000 V_{DC} for power line (ADAM-6520L not equipped)
- Supports 4,000 V_{DC} Ethernet ESD protection (ADAM-6520L not equipped)
- Provides flexible mounting: DIN-rail, Wall, Stack
- Supports wide operating temperature range : -40 ~ 85° C (ADAM-6520I)

Introduction

ADAM-6520 is a 5-port industrial-grade switch with Ethernet connectivity and from 10 to 100 Mbps transfer rates. (Auto-negotiation). Just like any other product in the ADAM family, ADAM-6520 can be mounted in three different ways: DIN rail, Wall and Stack. Solid industrial-grade design assures reliable operation in common application areas like: semi-conductor factories, inventory control environments, assembly lines, manufacturing and many more.

All modules support a wide voltage range of +10 ~ 30 V_{DC} over the terminal block, and 3,000 V_{DC} surge (EFT) protection ensures that over-voltage is no concern. The wide operating temperature of ADAM-6520 goes from -10 ~ 70°, while ADAM-6520I from -40 ~ 85°. This permits them to be functional in harsh environments.

The six inclusive LED indicators make troubleshooting of the modules easier. Each port has a pair of LEDs that indicate link status and port activities. This easily informs users of any collisions, the link status, power failure and data receipts for immediate on-site diagnosis.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x
- **LAN** 10/100Base-TX
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 100Mbps

Interface

- **Connectors** 5 x RJ-45
  2-pin removable screw terminal (power)
- **LED Indicators** Power, Link/Speed

Power

- **Power Consumption** ADAM-6520L: Max. 3W
  ADAM-6520/6520I: Max. 2.4 W
- **Power Input** 1 x Unregulated 10 ~ 30 V_{DC}

Mechanism

- **Dimensions (W x H x D)** 70 x 102 x 27 mm
- **Enclosure** IP30, ABS+PC with solid mounting kits
- **Mounting** DIN 35 rail, Wall, Stack

Protection

- **ESD (Ethernet)** 4,000 V_{DC} (ADAM-6520L not equipped)
- **Surge (EFT for power)** 3,000 V_{DC} (ADAM-6520L not equipped)

Environment

- **Operating Temperature**
  ADAM-6520 : -10 ~ 70° C (14 ~ 158° F), Stack : -10 ~ 60° C (14 ~ 140° F)
  ADAM-6520L : 0 ~ 60° C (32 ~ 140° F), Stack : 0 ~ 50° C (32 ~ 122° F)
  ADAM-6520I : -40 ~ 85° C (-40 ~ 185° F), Stack : -40 ~ 75° C (-40 ~ 167° F)
- **Storage Temperature**
  ADAM-6520 : -20 ~ 80° C (-4 ~ 176° F)
  ADAM-6520L : -10 ~ 70° C (14 ~ 158° F)
  ADAM-6520I : -50 ~ 95° C (-58 ~ 203° F)
- **Operating Humidity** 20 ~ 95 % (non-condensing)
- **Storing Humidity** 0 ~ 95 % (non-condensing)
- **MTBF** 1,580,000 hrs

Certifications

- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMC** U.S.A.: FCC Part 15 CISPR 22
  EU: EN55011, EN61000-6-4
  EN55022 Class A,
  EN61000-3-2/3
  EN55024,
  IEC61000-4-2/3/4/5/6/8/11
  EN61000-6-2

Ordering Information

- **ADAM-6520** 5-port 10/100 Mbps Industrial Ethernet Switch
- **ADAM-6520L** 5-port 10/100 Mbps Industrial Unmanaged Ethernet Switch
- **ADAM-6520I** 5-port 10/100 Mbps Industrial Ethernet Switch w/Wide Operating Temperature