

# ADAM-6520 Series

## 5-port 10/100Mbps Industrial Ethernet Switches



### Features

- Supports full/half duplex flow control
- Supports MDI/MDI-X auto crossover
- Embedded with switch controller, supports auto-negotiation
- Supports +10~30V<sub>DC</sub> voltage power input
- Provides surge (EFT) protection 3,000V
- (ADAM-6520L note equipped)  $V_{DC}$  for powerline  
Supports 4,000V<sub>DC</sub> Ethernet ESD protection (ADAM-6520L note 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: semiconductor factories, inventory control environments, assembly lines, manufacturing and many more.

All modules support a wide voltage range of +10~30V<sub>DC</sub> over the terminal block, and 3,000V<sub>DC</sub> 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.

These six inclusive LED indicators make troubleshooting of the module 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** IEEE802.3, 802.3u, 802.3x
- **LAN** 10/100Base-TX
- **Transmission Distance** Upto 100m
- **Transmission Speed** Upto 100Mbps

#### Interface

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

#### Power

- **Power Consumption** ADAM-6520L: Max. 3W  
ADAM-6520I: Max. 2.4W
- **Power Input** 1x Unregulated 10~30V<sub>DC</sub>

#### Mechanism

- **Dimensions (WxHxD)** 70x102x27mm
- **Enclosure** IP30, ABS+PC with solid mounting kits
- **Mounting** DIN35 rail, Wall, Stack

#### Protection

- **ESD (Ethernet)** 4,000V<sub>DC</sub> (ADAM-6520L note equipped)
- **Surge (EFT for power)** 3,000V<sub>DC</sub> (ADAM-6520L note 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** UL60950-1, CAN/CSA-C22.2 No. 60950
- **EMC**  
U.S.A.: FCC Part 15 Class B  
22EU: 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 10/100Mbps Industrial Ethernet Switch
- **ADAM-6520L** 5-port 10/100Mbps Industrial Unmanaged Ethernet Switch
- **ADAM-6520I** 5-port 10/100Mbps Industrial Ethernet Switch w/Wide Operating Temperature