

**DIGISOL™**

# SWITCHING SOLUTIONS

## DIGISOL Fast Ethernet Unmanaged Desktop Switch with 8 PoE Ports and 1 Uplink Port

### DG-FS1009PF-A (H/W Ver. A1)

#### Key Features:-

- 9 x 10/100Mbps Auto-negotiation Fast Ethernet RJ45 ports
- Supports PoE on 8 ports
- Supports PoE power up to 30W
- Complies with IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3af and IEEE802.3at standards
- Supports IEEE802.3x flow control for Full-duplex Mode and backpressure for Half-duplex Mode
- Supports MDI/MDI-X auto crossover
- 4K MAC address table
- Plug and Play installation
- Supports VLAN mode
- Max. PoE Budget 120W



#### Introduction:-

**DIGISOL DG-FS1009PF-A** is an eight port Fast Ethernet PoE unmanaged switch with 1 uplink port. It is designed to enhance network performance in a compact form factor. The switch offers 8 10/100Mbps Ethernet PoE port compliant with IEEE 802.3af/ IEEE802.3at. The PoE ports can be used to power up devices complying with IEEE802.3af & IEEE802.3at using the existing Ethernet cable. The switch uses store and forward packet switching technology which ensures reliable data transfer. The switch also supports automatic MDI/MDI-X detection which eliminates the need of a cross over cables and has an additional dedicated uplink port. This switch also support VLAN mode in which the clients connected to it can only talk with the uplink port. There is a toggle button on the switch for easy selection of the operational mode. Thus the DG-FS1009PF-A is an ideal solution for small Ethernet work-groups and applications requiring PoE.

#### Power over Ethernet Support

The DG-FS1009PF-A Switch offers 8x10/100 Mbps Fast Ethernet ports with Power over Ethernet support. These PoE ports are IEEE 802.3af/ IEEE802.3at compliant and can supply up to 30 W. The existing Ethernet cables can be used to power up IEEE 802.3af/ IEEE802.3at compliant network devices. This eliminates the need of an external power source and power cabling for such devices. The switch provides flexibility to users for connecting a PoE or non PoE device. The PoE devices connected to switch can be easily identified by the separate PoE LED status indicators for each port.

#### Plug and Play Installation

The auto-negotiation and auto-sensing feature of the switch eliminates the need to manually configure the switch for optimum performance. Auto MDI/MDI-X feature eliminates the need of using a crossover cable or dedicated uplink port. These features enable the switch to operate out of the box without any manual configuration.

#### High Performance

The switch supports data transfer at an average of 200Mbps per port in full duplex mode. This allows every node to perform at their maximum performance.

#### VLAN Mode Support

DG-FS1009PF-A has a toggle button to select the operational mode between "Normal" and "VLAN" mode. In VLAN mode the clients connected to the 8 ports can only communicate with the "Uplink" port. Thus the broadcast packets of one port/user will not reach the other ports/users and ensure security.



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## Technical Specifications:-

### Network Ports

- 8 x 10/100 Mbps auto-sensing UTP RJ-45 ports with PoE
- 1x10/100Mbps auto-sensing UTP RJ-45 Uplink Port

### Standard Compliance

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3x Full Duplex Flow Control
- IEEE 802.3af/ IEEE 802.3at Power over Ethernet

### Protocol

- CSMA/CD

### Network Cables

- 10BASE-T: UTP Cat. 3, 5 (100 m)
- 100BASE-TX: UTP Cat. 5, 5e (100 m)

### Data Transfer Rates

- Ethernet: 10 Mbps (Half-duplex), 20 Mbps (Full Duplex)

- Fast Ethernet: 100 Mbps (Half-duplex), 200 Mbps (Full Duplex)

### Performance Specifications

- Forwarding mode: Store-and-forward
- MAC Address database: 4K
- Max. PoE budget: 120W

### Status LEDs

- Power
- PoE in Use for each port
- Link & activity indicators for each port
- PoE-Max for max. PoE consumption

### Environmental Specifications

- Operating temperature: 0°C ~ 40°C
- Storage temperature: -20°C ~ 60°C
- Operating humidity: 10 %~90 % RH (non-condensing)
- Storage humidity: 5 to 90 % RH (non-condensing)

### Power Adapter

- 48V DC, 2.5A

### Physical Specifications

- Dimensions: (l x w x h)  
220 x 93 x 28 mm

### Minimum System Requirements

- Network card for each PC or Server
- Network cables Min. Cat.5 for 100 Mbps

### Warranty

- DIGICARE Limited Lifetime Warranty



## Ordering Information:-

### DG-FS1009PF-A (H/W Ver. A1): DIGISOL 8 10/100Mbps PoE Ports Fast Ethernet Unmanaged Desktop Switch with 1 Uplink Port

\*Limited Lifetime Warranty shall be subject to terms and conditions specified in the DIGISOL PRODUCT WARRANTY displayed on the website of the company.

\*\*IEEE802.3af: 15.4W per port i.e) all 8 PoE ports can be utilized

\*\*IEEE802.3at: 30W max i.e) only 3 PoE ports can be utilized

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Power Connector

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