

DG-GS1016/E

(H/W Ver. A2)

16 x 10/100/1000 Mbps RJ-45 Nway ports

The DG-GS1016/E (H/W Ver. A2) switch offers 16 x 10/100/1000 Mbps Ethernet ports which gives small workgroups a flexibility to integrate Ethernet, Fast Ethernet and Gigabit Ethernet in a single network. This Switch also allows for auto-sensing and auto-negotiation of highest available speed (10/100/1000 Mbps) and duplex mode, providing an automatic and flexible solution for the network. These intelligent ports detect the network speed and auto-negotiate between 1000BASE-T, 100BASE-TX and 10BASE-T, as well as between full and half-duplex.

Plug and Play installation

The DG-GS1016/E (H/W Ver. A2) switch operates without any configuration. The built-in auto-negotiation feature of the switch will adapt its speed (10/100/1000 Mbps) as per the remote host connected to its port. Each port supports auto MDI/MDI-X operation for uplink ports which eliminates the need for cross over cables or dedicated uplink ports.

This feature gives true plug-n-play operation by reducing most common cabling errors during installations. Any port can simply plug to a server or a switch, using the usual straight-through twisted-pair cable.

High-Performance

With its backplane capacity of 32 Gbps, data transfer is at an average of 2000 Mbps per port at full-duplex mode allowing every node to perform at their maximum performance.

Gigabit Ethernet Unmanaged Switch

DG-GS1016/E

(H/W Ver. A2)



DIGISOL DG-GS1016/E (H/W Ver. A2) is a 10/100/1000 Mbps Ethernet rack-mountable unmanaged switch designed to enhance network performance. The switch comes with 16 x 10/100/1000 Mbps ports, offering solutions for accelerating bandwidth needs of small Ethernet workgroups. The switch uses store and forward packet-switching technology which offers reliable data transfer. This switch is ideal for network connectivity for the SOHO environment.

Product Features & Compliances

- Conforms to IEEE 802.3 Ethernet, IEEE 802.3u Fast Ethernet standard,
- IEEE 802.3ab 1000Base-T Gigabit Ethernet standard
- 16 10/100/1000Mbps UTP/STP RJ45 ports (Supports MDI/MDIX)
- Store and forward architecture
- Flow control: IEEE 802.3x full-duplex flow control, half-duplex Back pressure flow control
- Supports maximum 8K MAC Address table
- Supports N-Way auto-negotiation
- Each port supports address learning, allow configuring MAC address aging time.

Technical Specifications

Standard Compliance

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet
- IEEE/ANSI 802.3 Nway Auto-negotiation
- IEEE 802.3x Full-duplex Flow Control
- IEEE 802.1p QoS Compliant

Ports

- 16 10/100M/1000M Auto-Negotiation RJ45 Ports (Auto MDI/MDIX)

Protocol

- CSMA/CD

Network Cables

- 10BASE-T: UTP Cat. 3, 5 (100 m)
- 100BASE-TX: UTP Cat. 5, 5e (100 m)
- 1000BASE-T: UTP Cat. 5, 5e, 6 (100 m)

LED Indicators

- Power, Link/Act, 1000Mbps

Data Transfer Rates

- Ethernet: 10 Mbps (Half-duplex), 20 Mbps (Full Duplex)
- Fast Ethernet: 100 Mbps (Half-duplex), 200 Mbps (Full Duplex)
- Gigabit Ethernet: 2000 Mbps (Full-duplex)

Performance Specifications

- Forwarding mode: Store-and-forward
- Bandwidth: 32 Gbps
- MAC Address database: 8K

Frame Filtering and Forward Rate

- 10Mbps: 14880pps
- 100Mbps: 148800pps
- 1000Mbps: 1488000pps

Power Supply Input

- 100-240V~, 50/60Hz

Environmental Specifications

- Operating temperature: 0°C~40°C (32F~104F)
- Storage temperature: -40°C~70°C (-40F~158F)
- Operating humidity: 10%~90% (non-condensing)
- Storage humidity: 5%~95% non-condensing



Ordering Information:

DG-GS1016/E (H/W Ver. A2): 16 Port 10/100/1000 Mbps Gigabit Ethernet Unmanaged Switch

**Please refer warranty document on www.digisol.com

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