DSG1008

8 Ports 10/100/1000Base-T Gigabit Ethernet Switch

The Compex DSG1008, 8 ports 10/100/1000Mbps gigabit Ethernet switch, delivers breathtaking speeds to your computer network at an unimaginably affordable price. The DSG1008 offers performance and reliability all within a smart-looking and space-saving design. Gigabit Ethernet promises to improve your network's backbone throughput tenfold over existing Fast Ethernet switches, thereby translating into time-savings for power users at home or at the office. You can now transfer large multimedia files, CAD drawings and run bandwidth intensive applications effortlessly.

To serve up the best possible performance, the Compex DSG1008 filters and forwards packets at full wire-speed. It also features a 4K MAC address table and a complementary self-learning and aging algorithm, the DSG1008 aims to meet the most demanding network needs. The support for 802.3x Flow Control in full duplex mode, and back pressure flow control in half-duplex mode, allows the DSG1008 to relieve possible network congestions and improve reliability of transmissions. Last but not least, Auto MDI/MDI-X crossover on all ports eliminates the need for crossover cables or uplink ports.

The Compex DSG1008 is designed stringently to meet the highest industry standards. It is compatible with your existing network infrastructure investments while offering you the best-of-class features and gigabit performance.

High-Performance
The Compex DSG1008's wire-speed architecture avails up to 16Gbps of switching capacity in full-duplex mode operation.

It is also equipped with a 4K MAC address table together with a self-learning and aging algorithm to meet the most demanding bandwidth needs of the power home user and Small Medium Enterprise.

Compatibility
Compatibility with existing Fast-Ethernet infrastructure is a key concern addressed with the Compex DSG1008.

It is designed to conform with the IEEE 802.3ab 1000Base-T, IEEE 802.3u 100Base-TX and IEEE802.3 10Base-T standards, allowing you to boost the potential network throughput without sacrificing present investments.

Reliability and Ease of Use
802.3x Flow control in full-duplex mode and back pressure flow control in half-duplex mode are supported in the DSG1008 to ensure reliability of transmission amidst a congested network.

The Compex DSG1008 is also incredibly easy to set up and use. It comes with Auto MDI/MDI-X crossover on all ports which eliminates the need for crossover cables or uplink ports.

The Auto-Negotiation on each port allows the switch to auto-sense the link speed of the network device (whether 10, 100 or 1000Mbps) and intelligently adjust for optimal performance.

Externally, the DSG1008 is also adorned with a comprehensive panel of diagnostic LEDs, to provide you, at a glance, the link status and activity.

Form Factor
The Compex DSG1008 encapsulated with a smart-looking and space-saving desktop form factor that will complement any office furnishing or professional working environment.

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Features and Benefits

Feature	Benefit
High Performance	1000Base-T provides tenfold increase in performance from the normal 100Mbps network
	Wire-speed architecture avails up to 16Gbps of switching capacity in full-duplex mode operation ensuring maximum throughput.
	4K MAC address table with a self-learning and aging algorithm to meet the most demanding bandwidth needs.
Compatibility	Supports existing Cat 5/5e copper cables and also the 10/100 Mbps network.
Ease of Use	Auto MDI/MDI-X crossover on all ports eliminate the need for crossover cables or uplink ports.
	Auto-Negotiation on each port auto-senses link speed of the network device (whether 10, 100 or 1000Mbps)
	Comprehensive diagnostic LEDs for link status and activity
Industry Compliance	Complies to industry standards like IEEE 802.3 10-Base-T , IEEE 802.3u 100Base-Tx, IEEE 802.3ab 1000Base-T and IEEE 802.3x Flow Control.

Specifications

Connectors
8 auto-negotiating 10/100/1000Base-T ports with Auto-MDIX

Performance
Forwarding Modes: Store and Forward
Bandwidth: 16Gbps
MAC Address Table: 4K
Switching Buffer: 128KB RAM

Cables
Ethernet: 2-pair UTP Cat. 3,4,5 cable
Fast-Ethernet: 2-pair UTP Cat. 5 cable
Gigabit Ethernet: 4-pair UTP Cat.5 cable

Functional
Standards compliance:
IEEE 802.3
IEEE 802.3u
IEEE 802.3ab

Flow control: 802.3x

Power Supply
DC inputs: 5V, 2.4A

Power Consumption: 10.5 watts (max)

Safety and Electromagnetic Compatibility
FCC Class A, CE Marking Class A, VCCI Class A

Environment Requirements
Operating Temperature:
0^0C to 40^0C

Storage Temperature:
-10^0C to 55^0C

Humidity:
5% RH to 95% RH

Dimensions
190 x 120 x 38 mm (W x H x D)

Ordering Information

8 Ports 10/100/1000Base-T Gigabit Ethernet Switch   DSG1008 (For US, Europe and Asia)