

### Features

- + Up to 1.25Gbps bidirectional data links
- + Hot-pluggable SFP footprint
- + Fully metallic enclosure for low EMI
- + Low power dissipation (1.2W typical)
- + Compact RJ-45 connector assembly
- + Access to physical layer IC via 2-wire serial bus
- + 10/100/1000 BASE-T operation in host systems with SGMII interface



### 10/100/1000BASE-T Copper SFP Transceiver

The D-Link DGS-712 1000BASE-T Copper Small Form Pluggable (SFP) transceiver is based on the SFP Multi Source Agreement. It is compatible with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE

802.3z and 802.3ab. The DGS-712 plugs into any standard SFP interface allowing for 1000Base-T Gigabit transmission over standard Category 5 twisted pair copper.

### Technical Specifications

#### Product/Performance Specifications

Standard	IEEE 802.3ab 1000BASE-T Gigabit Ethernet	
Transceiver Type	SFP (Small Form Pluggable)	
Connector	RJ-45	
Auto MDI/MDI-X	+ Automatic crossover detection enabled + External crossover cable not required	
Data Rate	+ 1,000 Mbps (IEEE 802.3 compatible) + 10/100/1000 BASE-T operation requires the host system to have an SGMII interface with no clocks. With a SERDES interface, this transceiver will operate at 1000BASE-T only.	
Cable Type	Cat. 5 twisted-pair	
Maximum Cable Distance Coverage	100 meters	
Supply Current	+ 350mA (typical) + 400mA (maximum) + 1.3W max power over full range of voltage and temperature	
Input Voltage	+ 3.1V (minimum) + 3.3V (typical) + 3.5V (maximum) + Referenced to GND	
Surge Current	+ 30mA + Hot plug above steady state current	
Dimensions (W x D x H)	.47" x 2.95" x .47" (11mm x 75mm x 11mm)	
Weight	.53 lbs (0.2 kg)	
Operating Temperature	32°F to 185°F (0°C to 85°C)	
Storage Temperature	-40°F to 185°F (-40°C to 85°C)	

### Warranty

Warranty	2-Year Limited <sup>1</sup>
----------	-----------------------------

### Ordering Information

<u>Part Number</u>	<u>Description</u>
DGS-712	1000BASE-T SFP Transceiver

<sup>1</sup> 2-Year Limited Warranty available only in the USA and Canada.

All references to speed are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.