## Features

+ Up to 1.25Gbs bi-directional 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

D-Links 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

| | |
|---|---|
| Standard | IEEE 802.3ab 1000BASE-T Gigabit Ethernet |
| Transceiver Type | SFP (Small Form Pluggable) |
| Connector | RJ-45 |
| Auto MDI/MDIX | + Automatic crossover detection enabled<br>+ External crossover cable not required |
| Data Rate | + 1,000 Mbps (IEEE 802.3 compatible)<br>+ 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 cable |
| Maximum Cable Distance Coverage | 100 meters |
| Supply Current | + 350mA (typical) + 400mA (maximum)<br>+ 1.3W max power over full range of voltage and temperature |
| Input Voltage | + 3.1V (minimum) + 3.3V (typical)<br>+ 3.5V (maximum) + Referenced to GND |
| Surge Current | + 30mA<br>+ Hot plug above steady state current |
| Operating Temperature | 32˚ to 185˚ F (0˚ to 85˚ C) |
| Storage Temperature | -40˚ to 185˚ F (-40˚ to 85˚ C) |
| Waranty | 2 Years |

## Ordering Information

| *Part Number* | *Description* |
|---|---|
| DGS-712 | 1000BASE-T Copper SFP Transceiver |

BUSINESS

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