



GBIC Transceivers

D-Link Gigabit Interface Converters (GBIC) are transceivers that connect Gigabit switches and 10/100Mbps switches with GBIC slots to Gigabit Ethernet networks, providing high-speed connections over the fiber-optic or twisted-pair cable. The fiber-optic transceivers have standard SC connectors for connection compatibility.

Hot Swappable

All D-Link GBIC transceivers are hot-swappable. You can remove or replace the GBIC transceiver with the system powered on. This permits modules and GBICs to be added or swapped without interrupting the network.

Full Size GBIC

All transceivers described in this datasheet have full GBIC size. (D-Link Mini GBIC transceivers are described in a separate brochure). These transceivers slide into a full-size GBIC slot. They provide the necessary signal amplification

for data to be transmitted to the network cable from the port, and vice versa, for the port to receive data from the network cable.

Applications

Applications of the fiber transceivers include distributed multi-processing, Gigabit switch cascading, high-speed I/O file transfer, bus extension application, and channel extender/data storage.

Multi-mode Fiber Transceiver (550 m)

DGS-701

- SC 1000BASE-SX port (IEEE 802.3z standard)
- Full duplex operation
- 802.3x flow control support
- Fiber type: 50um/125um 500MHz-km multi-mode fiber up to 550 m
- Wave length: 850 m
- Power support: 3.3V

Single-mode Fiber Transceiver (5 km)

DGS-702

- SC 1000BASE-LX port (IEEE 802.3z standard)
- Full duplex operation
- 802.3x flow control support
- Fiber type: 9um single-mode fiber up to 5 km
- Wave length: 1310 m
- Power support: 3.3V

GBIC Transceiver

Technical Specifications

Transceiver

Single-mode Fiber Transceiver (10 km)

DGS-703

- SC 1000BASE-LX port (IEEE 802.3z standard)
- Full duplex operation
- 802.3x flow control support
- Fiber type: 9um single-mode fiber up to 10 km
- Wave length: 1310 m
- Power support: 3.3V
- Power budget: 10.5dB

Single-mode Fiber Transceiver (30 km)

DGS-704

- SC 1000BASE-LX port (IEEE 802.3z standard)
- Full duplex operation
- 802.3x flow control support
- Fiber type: 9um single-mode fiber up to 30 km
- Wave length: 1310 m
- Power support: 3.3V
- Power budget: 18dB

Multi-mode Fiber Transceiver (550 m)

DGS-707

- SC 1000BASE-SX port (IEEE 802.3z standard)
- Full duplex operation
- 802.3x flow control support
- Fiber type: 50um or 62.5 multi-mode fiber up to 550 m
- Wave length: 850 m
- Power support: 3.3V

Single-mode Fiber Transceiver (70 km)

DGS-708

- SC 1000BASE-LX port (IEEE 802.3z standard)
- Full duplex operation
- 802.3x flow control support
- Fiber type: 9um single-mode fiber up to 70 km
- Wave length: 1550 m
- Power support: 3.3V and 5V
- Power budget: 23dB

Copper Twisted-pair Transceiver (100 m)

DGS-711

- RJ-45 100BASE-TX/1000BASE-T port (IEEE 802.3u/802.3ab standards)
- Full duplex for Gigabit
- 802.3x flow control support
- Cable type: Cat. 5 twisted-pair up to 100 m
- Power support: 3.3V

Ordering Information

GBIC Transceiver

DGS-701	For 1000BASE-SX, multi-mode fiber, 550 m max.
DGS-702	For 1000BASE-LX, single-mode fiber, 5 km max.
DGS-703	For 1000BASE-LX, single-mode fiber, 10 km max.
DGS-704	For 1000BASE-LX, single-mode fiber, 30 km max.
DGS-707	For 1000BASE-SX, multi-mode fiber, 550 m max.
DGS-708	For 1000BASE-LX, single-mode fiber, 70 km max.
DGS-711	For 1000BASE-T, Cat. 5 cable, 100 m max.

D-Link®

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RECYCLABLE
Rev. 01 (Mar. 2003)
Printed in Taiwan