

## Gigabit Interface Converter

### High Performance Multimode Transceiver

#### DGS-701



D-Link's new line of Gigabit Interface Converters (GBICs) and Small Form-Factor Pluggables (SFPs) transceivers represent an industry leading combination of performance and affordability. D-Link's new Gigabit transceivers are available in two form-factors: standard (GBIC) or (SFP)/mini-GBIC.

The DGS-701 is a high performance 850nm multimode GBIC transceiver. Supporting full duplex, Gigabit speeds on multimode fiber for distances of up to 220m/550m on 62.5µm/50µm fiber respectively. The unit features a metal housing to reduce EMI and to increase durability. The DGS-701 is hot pluggable and is backed by a standard 3-year product warranty and free technical support.

## FEATURES

### Product Highlights:

- 850nm Multimode Transceiver
- Hot Pluggable
- Multi-Vendor<sup>1</sup>/Device Support<sup>1</sup>
- Metal Enclosure Reduces EMI
- Standards Compliant
- 3.3V Power Supply
- Duplex SC Connector

### Performance:

- Up to 550m on 50/125µm
- Up to 220m on 62.5/125µm
- Up To 1.25Gbps Bi-Directional (Gigabit)
- Up To 1.0625Gbps Bi-Directional (Fiber Channel)

### Support Information:

- Free Technical Support
- 3 Year Warranty
- Extended Support Options Available

<sup>1</sup> Third-Party Devices Must Comply With specified Supported Industry-Standard Specifications

### D-Link Gigabit Transceivers

#### D-Link

PRODUCT	TYPE	VOLTAGE	CONNECTOR	CAT5 UTP	62.5µ Multimode	50.0µ Multimode	9µ Singlemode
<b>DGS-701</b> (1000BASE-SX GBIC, 3.3V, 220/550m)	GBIC	3.3V	SC	-	220m	550m	-
<b>DGS-702</b> (1000BASE-LX GBIC, 3.3V Up to 10km)	GBIC	3.3V	SC	-	550m	550m	10km
<b>DGS-703</b> (1000BASE-LX GBIC, 3.3/5.0V, Up to 10km)	GBIC	3.3V/5.0V	SC	-	550m	550m	10km
<b>DGS-704</b> (1000BASE-LX GBIC, 3.3V, Up to 30km)	GBIC	3.3V	SC	-	-	-	30km
<b>DGS-705</b> (1000BASE-LX GBIC, 5.0V, Up to 10km)	GBIC	5.0V	SC	-	-	-	10km
<b>DGS-706</b> (1000BASE-LX GBIC, 5.0V, Up to 30km)	GBIC	5.0V	SC	-	-	-	30km
<b>DGS-707</b> (1000BASE-SX GBIC, 3.3V, 220/550m)	GBIC	3.3V	SC	-	220m	550m	-
<b>DGS-708</b> (1000BASE-LX GBIC, 3.3/5.0V, 80km)	GBIC	3.3V/5.0V	SC	-	-	-	80km
<b>DGS-711</b> (1000BASE-T GBIC, 3.3V Up to 100m)	GBIC	3.3V	RJ45	100m	-	-	-
<b>DEM-310GM2*</b> (1000BASE-SX+ GBIC, 3.3V Up To 2km)	GBIC	3.3V	SC	-	Up to 2km*	Up to 2km*	-
<b>DEM-310GT</b> (1000BASE-LX SFP, 3.3V, Up to 10km)	SFP	3.3V	LC	-	550m	550m	10km
<b>DEM-311GT</b> (1000BASE-SX SFP, 3.3V, Up to 220/550m)	SFP	3.3V	LC	-	220m	550m	-
<b>DEM-312GT2*</b> (1000BASE-SX+ SFP, 3.3V, Up to 2km)	SFP	3.3V	LC	-	Up to 2km*	Up to 2km*	-
<b>DEM-314GT</b> (1000BASE-LX SFP, 3.3V, Up to 50km)	SFP	3.3V	LC	-	-	-	50km
<b>DEM-315GT</b> (1000BASE-LX SFP, 3.3V, Up to 80km)	SFP	3.3V	LC	-	-	-	80km

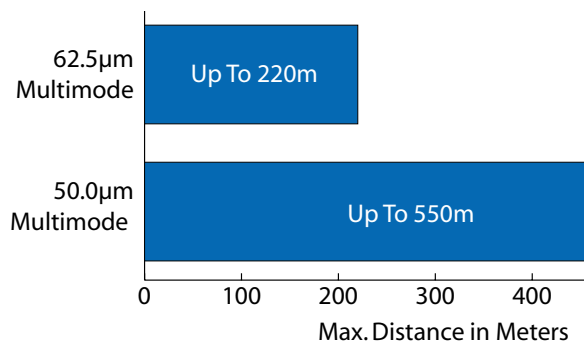
\* Must be paired with another DEM-310GM2 and/or DEM-312GT2, not for use with other SX GBICs

# DGS-701

Gigabit Interface Converter  
High Performance 850nm Multimode Transceiver

## D-Link Gigabit Compatibility Matrix

### DGS-701



D-Link MODULE	PRODUCT REV	DGS-1024T	DGS-1024TG	DGS-3224TG	DGS-3224TGR	DGS-3308TG/FG
		A1/B1	B1	A1	A1	B1
DGS-701 (1000BASE-SX GBIC, 3.3V, 220/550m)	A1		✓	✓		✓
DGS-702 (1000BASE-LX GBIC, 3.3V, Up to 10km)	A1		✓	✓		✓
DGS-703 (1000BASE-LX GBIC, 3.3/5V, Up to 10km)	A1		✓	✓		✓
DGS-704 (1000BASE-LX GBIC, 3.3V, Up to 30km)	A1		✓	✓		✓
DGS-705 (1000BASE-LX GBIC, 5.0V, Up to 10km)	A1		✓	✓		✓
DGS-706 (1000BASE-LX GBIC, 5.0V, Up to 30km)	A1		✓	✓		✓
DGS-707 (1000BASE-SX GBIC, 3.3V, 220/550m)	A1		✓	✓		✓
DGS-708 (1000BASE-SX+ GBIC, 3.3/5.0V, 80km)	A1		✓	✓		✓
DGS-711 (1000BASE-T GBIC, 3.3V, Up to 100m)	A1		✓	✓		✓
DEM-310GM2* (1000BASE-SX+ GBIC, 3.3V, Up to 2km)	A1		✓	✓		✓
DEM-310GT (1000BASE-LX SFP, 3.3V, Up to 10km)	A1	✓			✓	
DEM-311GT (1000BASE-SX SFP, 3.3V, 220/550m)	A1	✓			✓	
DEM-312GT2* (1000BASE-SX+ SFP, 3.3V, Up to 2km)	A1	✓			✓	
DEM-314GT (1000BASE-LX SFP, 3.3V, Up to 50km)	A1	✓			✓	
DEM-315GT (1000BASE-LX SFP, 3.3V, Up to 80km)	A1	✓			✓	

\* Must be paired with another DEM-310GM2 and/or DEM-312GT2, not for use with other SX GBICs

## Technical Specifications

### Product/Performance Specifications

Data Rate Gigabit	1.250Gbps (Bi-Directional)
Data Rate Fiber Channel	1.062Gbps (Bi-Directional)
Optical Receiver Sensitivity	-18dBm (Max)

### Transmission Range

62.5/125µm	Up to 220m
50.0/125µm	Up to 550m
9/125µm	N/A

### Interface Options

Connector Type	SC Type
----------------	---------

### Standards

IEEE	802.3z
------	--------

### Operational Ranges

Supply Voltage	3.1-3.5V
Max Voltage	6.0V
Max Current	300mA

### Physical Specifications

Dimensions (WxDxH)	1.19x0.47x2.25 in
--------------------	-------------------

### Safety Certifications and Environmental Information

Class 1 Laser -	EN 60825-1
FDA 21	1040.10 & 1040.11
Operating Temperature	0° - 70° C (32° - 158° F)
Storage	-40° - 85° C (-40° - 185° F)
Humidity Operating:	10% to 85%

### Warranty and Support Information

Warranty	Limited 3 Year Warranty for as long as the original customer/end user owns the product, (excluding power supplies and fans). Power supplies and fans carry a limited 3 year warranty.
Support	Free Technical

### Ordering Information

DGS-701	1000BASE-SX Multimode GBIC
---------	----------------------------