



DIGISOL®

SWITCHING SOLUTIONS

DIGISOL 100G SR4 QSFP28 Transceiver

DG-SA5010

Key Features:-

- 4 independent full-duplex channels
- Up to 28Gb/s data rate per channel
- QSFP28 MSA compliant
- Up to 100m OM4 MMF transmission
- Operating case temperature: 0 to 70
- Storage Temperature : -40 to 85
- Relative Humidity (non-condensation): 0 to 85% RH
- Single 3.3V power supply
- Maximum power consumption 3.5W
- MTP/MPO optical connector
- Link Distance (OM3): 70 m
- Link Distance (OM4): 100 m
- RoHS-6 compliant



Introduction:-

DIGISOL DG-SA5010 is a parallel 100Gb/s Quad Small Form-factor Pluggable (QSFP28) optical module. It provides increased port density and total system cost savings. The QSFP28 full-duplex optical module offers 4 independent transmit and receive channels, each capable of 25Gb/s operation for an aggregate data rate of 100Gb/s on 100 meters of OM4 multi-mode fiber.

An optical fiber ribbon cable with an MTP/MPO connector can be plugged into the QSFP28 module receptacle. Electrical connection is achieved through an MSA-compliant 38-pin edge type connector. The module operates by a single +3.3V power supply. A 2-wire serial interface is available to send and receive more complex control signals, and to receive digital diagnostic information. Individual channels can be addressed and unused channels can be shut down for maximum design flexibility.

The product is designed with form factor, optical/electrical connection and digital diagnostic interface according to the QSFP28 Multi-Source Agreement (MSA). It has been designed to meet the harshest external operating conditions including temperature, humidity and EMI interference. The module offers very high functionality and feature integration, accessible via a two-wire serial interface.

Applications:-

- Rack to Rack
- Data Centre
- Infiniband QDR, DDR and SDR
- 100G Ethernet



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Digital Diagnostic Functions:-

The following digital diagnostic characteristics are defined over the Recommended Operating Environment unless otherwise specified. It is compliant to SFF-8436.

Parameter	Symbol	Min	Max	Units	Notes
Temperature monitor absolute error	DMI_Temp	-3	3	Deg C	Over operating temperature range
Supply voltage monitor absolute error	DMI_V _{cc}	-0.15	0.15	V	Over Full operating range
Channel RX power monitor absolute error	DMI_RX_Ch	-2	2	dB	1
Channel Bias current monitor	DMI_Ibias_Ch	-10%	10%	mA	Ch1~Ch4
Channel TX power monitor absolute error	DMI_TX_Ch	-2	2	dB	1

Ordering Information:-

DG-SA5010 : DIGISOL 100G SR4 QSFP28 Transceiver, 100M, 850nm, MPO, Multimode fiber, 0°C to 70°C

*Warranty shall be subject to terms and conditions specified in the DIGISOL PRODUCT WARRANTY displayed on the website of the company.

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