



DIGISOL®

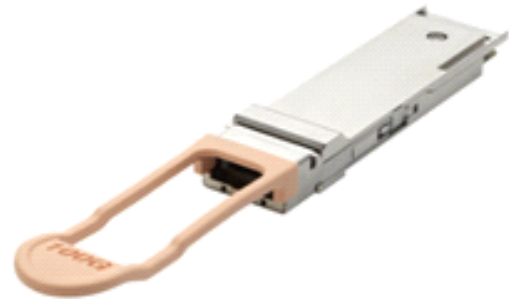
SWITCHING SOLUTIONS

DIGISOL 100GBASE-LR4 10km QSFP28 Optical Transceiver with DDM

DG-SA5131

Key Features:-

- QSFP28 MSA compliant
- 4x25Gb/s or 4x28Gb/s electrical interface
- Supports 103.125Gb/s and 111.81Gb/s aggregate bit rate
- Supports IEEE802.3ba
- Up to 10km transmission on single mode fiber
- LC duplex connector
- 4-lane DFB and 4-lane Pin
- Commercial case temperature: 0°C~70°C
- Single 3.3V power supply
- Maximum power consumption 4 Watts
- Maximum Supply Voltage: 0 to 3.6 V
- Storage Temperature : -40 to 85
- Operating Case Temperature: -5 to 75
- Relative Humidity: 0 to 85%
- RoHS



Introduction:-

DIGISOL DG-SA5131 is designed for 10km optical communication applications. This module contains 4-lane DFB optical transmitter, 4-lane optical receiver and module management block including 2 wire serial interfaces. The optical signals are multiplexed to a single-mode fiber through an industry standard LC connector.

Applications:-

- 100GBASE-LR4 Ethernet
- Telecom networking
- OTN OTU4 411-9D1F
- Data Center Interconnect

Digital Diagnostic Monitoring Functions:-

DG-SA5131 support the I2C-based Diagnostic Monitoring Interface (DMI) defined in document SFF-8665. The host can access real-time performance of transmitter and receiver optical power, temperature, supply voltage and bias current.

Parameter	Accuracy	Unit
Case Temperature	±3	°C
Supply Voltage	±3%	V
Tx Bias Current	±10%	mA
Tx Optical Power	±3	dB
Rx Optical Power	±3	dB

Ordering Information:-

DG-SA5131 : DIGISOL 103.125 Gbps, single mode fiber, LAN-WDM, 10Km, 0°C~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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DIGISOL SYSTEMS LIMITED
215 Atrium Bldg., Unit no. 305,
3rd Floor, A-Wing, Opp. Big Cinema,
Courtyard Marriott Compound,
Andheri-Kurla Road,
Andheri (E), Mumbai - 400093.

- 1800-209-3444
- www.digisol.com
- helpdesk@digisol.com

@DIGISOLINDIA

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