



**DIGISOL**®

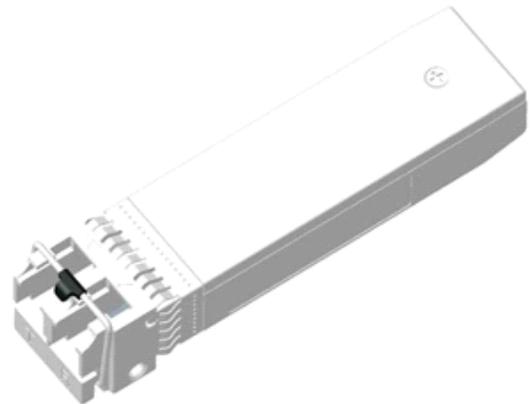
**SWITCHING SOLUTIONS**

## DIGISOL 25G SFP28 SR Dual LC Transceivers

### DG-SA3010

#### Key Features:-

- 25Gbps serial optical interface
- 850nm VCSEL transmitter and GaAs PIN PD receiver
- Rate Adaptation
- Operating temperature: Commercial (0°C~ 70°C)
- Maximum link length of 70m via OM3 multimode Fiber (MMF)
- Maximum link length of 100m via OM4 multimode Fiber (MMF)



#### Introduction:-

DIGISOL family of Small form Factor Pluggable (SFP) transceiver modules are specifically designed for the high performance integrated data link over optical fibre. With the hot pluggability, these modules offer an easy way to be installed into SFP ports at any time without the interruption of the host equipment operating online.

The DG-SA3010 Transceiver is intended for 100m reach service 25.78Gb/s 850nm Multi-Mode high-speed communications equipment where low-cost, extraordinary performance and reliability are essential. It consumes low power, operates base on 3.3V DC power supply and is offered in the commercial range. They are compliant with SFP28 MSA, SFF-8431 and SFF-8432.

The low jitter and low bit error rate optical assembly features a DML laser transmitter and PIN/TIA receiver. It utilizes internal clock and data recovery (CDR) units on transmitter and the receiver chains for low jitter compliance. The differential AC coupled Tx and Rx data interfaces are CML compatible. The device is Class I laser safety compliant.

#### Applications:-

- Inter Rack Connection
- High-speed Servers
- High-performance Computing Clusters
- High-performance Computing Clusters
- SAN, Routers, Hubs, Load Balancer



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### DIGISOL 25G SFP28 SR Dual LC Transceivers

#### Digital Diagnostic Functions:-

As defined by the SFF-8472, Our SFP28 transceivers provide digital diagnostic functions via a 2-wire serial interface, which allows real-time access to the following operating parameters:

- Transceiver temperature
- Laser bias current
- Transmitted optical power
- Received optical power
- Transceiver supply voltage

It also provides a sophisticated system of alarm and warning flags, which may be used to alert end-users when particular operating parameters are outside of a factory-set normal range. The operating and diagnostics information is monitored and reported by a Digital Diagnostics Transceiver Controller (DDTC) inside the transceiver, which is accessed through the 2-wire serial interface. The memories are organized as a series of 8-bit data words that can be addressed individually or sequentially. The 2-wire serial interface provides sequential or random access to the 8 bit parameters, addressed from 0x00h to the maximum address of the memory. For more detailed information, including memory map definitions, please refer the SFF-8472 documentation.

#### Digital Diagnostic Monitor Accuracy:-

The following characteristics are defined over recommended operating conditions

Parameter	Accuracy	Unit
Internally measured transceiver temperature	+/-3	deg.C
Internally measured transceiver supply voltage	+/-3	%
Measured Tx bias current	+/-10	%
Measured Tx output power	+/-3	dB
Measured Rx received average optical power	+/-3	dB

#### Ordering Information:-

**DG-SA3130 : DIGISOL 25G SFP28 SR Transceiver, multimode fiber, max 100m (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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