

SFP28 ELECTRICAL LOOPBACK



SFP electrical loopbacks provide a method for port operations testing in board, hub, system, and other applications.

The SFP 28 electrical loopback supports Fibre Channel, Gigabit Ethernet, and Infiniband protocols, and is capable of achieving up to 100 Gbps data transfer rate.

In addition to the electrical loopback function, the EL-18-08001 provides a MSA standard 2-wire serial communication interface to digital diagnostics. This provides information about the present operating conditions and the pre-loaded EEPROM memory map. Both standard and custom memory maps are available.

Applications

- Board and system level testing
- Test and measurement
- Switch and router chamber testing
- 100Mb/s to 28Gbps

Benefits

- Economical SFP+ Port Testing
- Power on validation
- Temperature sensing

Features

- Power consumption of 2W over 6 spots
- Operation up to 28Gbps per lane
- Dual LED indicator to display module status
- Custom memory maps
- 100% at rate AC testing
- Temperature range from 0°C to 80°C
- MSA compliant EEPROM
- Insertion counter



About Timbercon

Timbercon has been a leader in the military and aerospace communications industries for over 20 years.

Our fiber optic products are fully assembled at the Timbercon manufacturing facility in Tualatin, Oregon, USA. The on-site sourcing, research and development, and production teams enable Timbercon to maintain stringent controls across the build process from sourcing to finished product. Our manufacturing processes and products are RoHS compliant, ISO 9001 certified, and AS9100C certified.

When quality workmanship is your priority, choose Timbercon USA manufactured fiber optic products.



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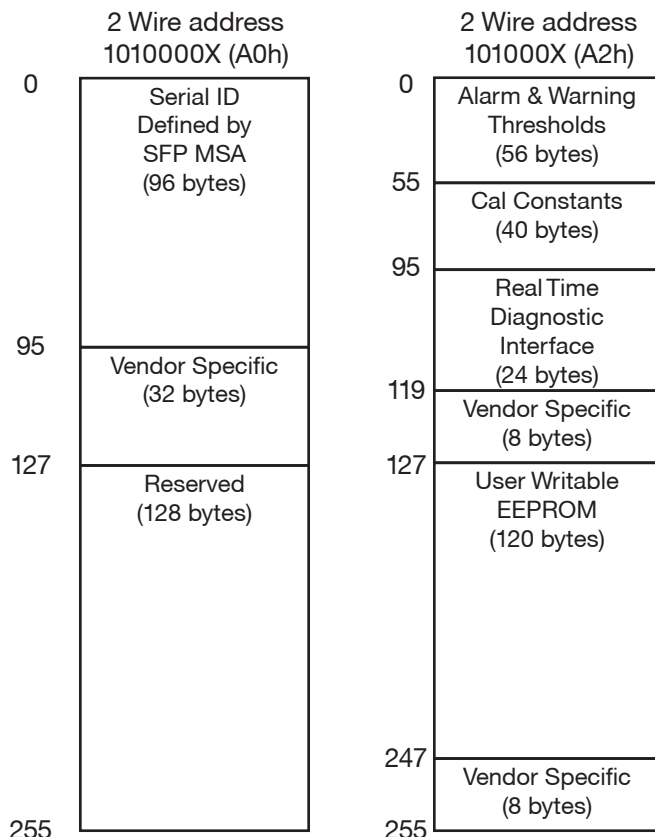
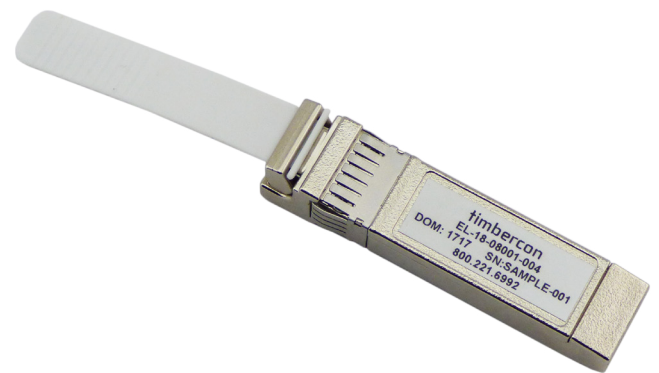


Recommended Operating Conditions

Parameter	Symbol	Notes/Conditions	Min	Typ	Max	Units
Operating Temperature	T_A		0		80	°C
Supply Voltage	VCC	Main Supply Voltage	3.00	3.3	3.60	V
Data Rate	R_b	Guaranteed to work at 28Gbps per lane	0		28	Gbps
Input/Output Load Resistance	R_l	AC-Coupled, Differential	90	100	110	Ω
Power Class		Programmable to emulate all power classes	0		2	W

Memory Map

In addition to the electrical loopback function, the EL-11-08001 provides an MSA standard 2-wire serial communication interface to digital diagnostics and pre-loaded EEPROM memory maps; both standard and custom memory maps are available.



LED Indicator

Green (solid) - Signifies the module is fully plugged-in and operating in high power permitted mode as defined by the SFP28 MSA specification.

Amber (solid) - Signifies the module is fully plugged-in and operating in low power permitted mode as defined by the SFP28 MSA specification.

Green and Amber (blinking) - Signifies the module is overheated and the high temperature alarm is activated.



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