Fortinet FN-TRAN-LX

Datasheet

Product Overview

- The Fortinet FN-TRAN-LX is a high-performance 1GE SFP LX transceiver module designed for systems with SFP and SFP+ slots. It is engineered to provide seamless integration and reliable performance in a variety of networking environments.

- It supports a 10km range over single-mode fiber, making it ideal for long-distance network connections.

- It operates reliably within a wide temperature range of -40°C to 85°C, ensuring consistent performance even in harsh environmental conditions.

- The FN-TRAN-LX is compliant with multiple network standards and protocols, ensuring broad compatibility with existing network infrastructure. Additionally, the transceiver features hot-swappable functionality, allowing for easy installation and replacement without the need for network downtime.

- Overall, the Fortinet FN-TRAN-LX offers a reliable, high-performance solution for extending network reach with minimal maintenance and operational complexity.

Product Highlights

- **1GE Connectivity:** Supports 1 Gigabit Ethernet for high-speed data transmission.

- **10km Range:** Operates over single-mode fiber for long-distance connectivity.

- **Wide Temperature Range:** Functions reliably from -40°C to 85°C, suitable for varied environments.

- **Compatibility:** Compatible with SFP and SFP/SFP+ slots, ensuring seamless integration.

- **Durability**: High durability and reliability for consistent network performance.

Detailed Features

FN-TRAN-LX

Component	Specification
Data Rate	1 Gigabit Ethernet
Transceiver Type	SFP
Wavelength	1310 nm
Reach	10 km
Operating Temperature Range	-40°C to 85°C

High-Speed Data Transmission

The FN-TRAN-LX supports 1 Gigabit Ethernet, providing fast and efficient data transfer rates essential for high-demand applications.

Extended Range

Designed for long-haul applications, it operates over single-mode fiber with a reach of up to 10km, ideal for distant branch connections and extensive network setups.

Broad Temperature Tolerance

With an operating temperature range from -40°C to 85°C, this transceiver can perform reliably in diverse environmental conditions, from data centers to outdoor installations.

Seamless Slot Compatibility

It is compatible with both SFP and SFP/SFP+ slots, ensuring it can be easily integrated into existing network systems without compatibility issues.

Advanced Optical Components

Utilizes a DFB Laser for precise and efficient optical signal transmission, enhancing overall network reliability.

Low Power Consumption

Consumes just 1W of power, making it an energy-efficient choice for large-scale network deployments.

Robust Design

Built for high durability, ensuring long-term reliable performance even under continuous operation.

Compliance and Standards

Adheres to RoHS compliance, ensuring environmentally friendly and safe operation.

Enhanced Diagnostics

Equipped with advanced diagnostics and monitoring capabilities, allowing network administrators to maintain optimal network performance and easily identify potential issues.

Technical Specifications

Hardware Specifications

Feature	Value
Data Rate	1 Gigabit Ethernet
Transceiver Type	SFP
Wavelength	1310 nm
Reach	10 km
Operating Temperature Range	-40°C to 85°C
Cable Type	Single-mode fiber (SMF)

Metric	Value
Interface	LC Duplex Connector
Compatibility	Systems with SFP and SFP/SFP+ slots
Commercial Temperature Range	0°C to 70°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95%
Protocol	Gigabit Ethernet
Optical Components	DFB Laser
Power Supply Voltage	3.3V
Power Consumption	1W
Compliance	RoHS

Product Comparison

Feature	FN-TRAN-LX	FN-TRAN-SX	FN-TRAN-LH
Range	10 km	550 m	40 km
Temperature Range	-40°C to 85°C	0°C to 70°C	-40°C to 85°C
Fiber Type	SMF	MMF	SMF
Slot Compatibility	SFP and SFP/SFP+	SFP and SFP/SFP+	SFP and SFP/SFP+
Port Type	1GE SFP LX	1GE SFP SX	1GE SFP LH

Accessories

Category	Accessories
Optional Accessories	- SFP to LC Connector: FN-CONN-01
	- Patch Cable: FN-CABLE-05M
	- Optical Attenuator: FN-ATTEN-10DB

Support & Warranty

24/7 Online Service

3-Year Premium Warranty

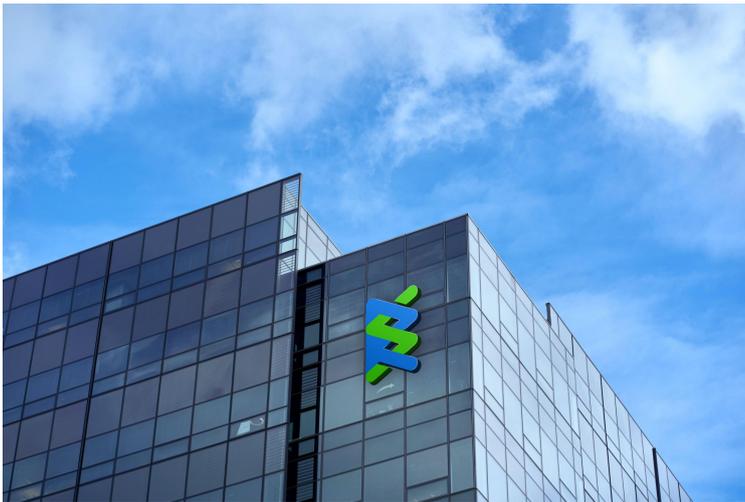Professional Technical Support

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