AddOn FN-TRAN-SFP+LR-AO

Addon FN-TRAN-SFP+LR-AO Fortinet Compatible 10GBase-LR SFP+ Transceiver

User Manual

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the Addon FN-TRAN-SFP+LR-AO 10GBase-LR SFP+ Transceiver. This optical module is designed for high-speed 10 Gigabit Ethernet connections and is fully compatible with Fortinet networking devices. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

Safety Information

- **Laser Safety:** This product contains a laser device. Do not stare directly into the optical port when the transceiver is powered on, as this may cause eye damage.
- **Electrostatic Discharge (ESD):** Always handle the transceiver with appropriate ESD precautions, such as wearing an anti-static wrist strap, to prevent damage to sensitive electronic components.
- **Handling:** Avoid touching the optical connectors directly. Keep dust caps on the optical ports when the transceiver is not in use.
- **Environment:** Operate the transceiver within its specified environmental conditions (temperature, humidity) to ensure reliable performance.

Product Overview

The Addon FN-TRAN-SFP+LR-AO is a high-performance SFP+ transceiver module engineered for reliable 10 Gigabit Ethernet connectivity over long distances. It is specifically designed to be compatible with Fortinet networking equipment, ensuring seamless integration and operation within existing Fortinet infrastructures.
Key features include:

- **Compatibility:** Fully compatible with Fortinet networking devices.

- **TAA Compliant:** Meets Trade Agreements Act requirements for government procurement.
- **10GBase-LR Standard:** Supports 10 Gigabit Ethernet connections for long-reach applications.
- **Long Reach:** Capable of transmitting data up to 10 kilometers (6.2 miles).
- **Single-Mode Fiber (SMF):** Optimized for use with single-mode fiber optic cables.
- **Wavelength:** Operates at a 1310nm wavelength.
- **LC Connector:** Utilizes a standard LC duplex connector for fiber optic connections.
- **Digital Optical Monitoring (DOM):** Provides real-time monitoring of transceiver parameters such as temperature, voltage, and optical power levels.
- **Hot-Pluggable:** Can be inserted or removed from a network device without powering down the device.

A close-up view of the Addon FN-TRAN-SFP+LR-AO SFP+ transceiver module. It features a metallic housing with a blue pull tab on one end for easy insertion and removal. A label on the top displays the model number, specifications like '10GBase-LR SFP+ SMF', '1310nm, 10km, LC, DOM', and a barcode.

Setup

1. **Prepare the Device:** Ensure your Fortinet networking device has an available SFP+ port.
2. **Handle with Care:** Observe ESD precautions. Remove the transceiver from its protective packaging.
3. **Insert the Transceiver:** Gently slide the SFP+ transceiver into the designated SFP+ port on your networking device until it clicks into place. The transceiver is hot-pluggable, so the device does not need to be powered off.
4. **Remove Dust Caps:** Carefully remove the protective dust caps from the transceiver's LC optical ports.
5. **Connect Fiber Optic Cables:** Connect the appropriate single-mode LC-to-LC fiber optic cables to the transceiver's ports. Ensure the transmit (TX) port on one end connects to the receive (RX) port on the other end, and vice-versa.
6. **Verify Connection:** Check the link status indicators on your networking device to confirm a successful connection.

Operating

Once installed, the Addon FN-TRAN-SFP+LR-AO transceiver operates automatically to establish a 10 Gigabit Ethernet link. The networking device will recognize the module and configure the port accordingly.

- **Link Status:** Monitor the link status LEDs on your Fortinet device to confirm the optical link is active.
- **Digital Optical Monitoring (DOM):** Utilize your networking device's management interface to access DOM data. This feature allows you to monitor real-time parameters such as transmit power, receive power, temperature, and voltage, which are crucial for performance assessment and troubleshooting.

Maintenance

Proper maintenance ensures the longevity and reliable performance of your SFP+ transceiver.

- **Cleaning Optical Connectors:** Regularly inspect and clean fiber optic connectors using approved fiber cleaning tools. Dust and contaminants on the fiber end-faces are a common cause of signal loss and link issues.
- **Dust Caps:** Always replace the protective dust caps on the transceiver's optical ports when no fiber cable is connected.
- **Storage:** Store unused transceivers in their original anti-static packaging in a cool, dry environment.

Troubleshooting

If you encounter issues with your transceiver, consider the following troubleshooting steps:

- **No Link Light:**
  - Verify the transceiver is fully seated in the SFP+ port.
  - Check fiber cable connections for proper TX/RX orientation.
  - Inspect fiber optic cables and connectors for damage or dirt. Clean if necessary.
  - Ensure the connected device on the other end is powered on and configured correctly.
- **Low Signal or Intermittent Connection:**
  - Check fiber cable length to ensure it is within the 10km limit for 10GBase-LR.
  - Use DOM to check transmit and receive power levels. Compare them against the transceiver's specifications.
  - Ensure only single-mode fiber is used.
  - Clean all fiber optic connectors.
- **Transceiver Not Recognized:**
  - Remove and re-insert the transceiver.
  - Ensure your Fortinet device's firmware is up to date.
  - Try the transceiver in a different SFP+ port or a different compatible device if available.

If issues persist, consult your Fortinet device's documentation or contact technical support.

Specifications

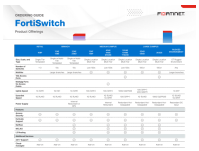
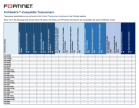
Feature	Description
Model	FN-TRAN-SFP+LR-AO
Brand	AddOn
Compatibility	Fortinet devices
Standard	10GBase-LR
Form Factor	SFP+
Data Rate	10 Gbps
Max Distance	10 km (6.2 miles)
Fiber Type	Single-Mode Fiber (SMF)
Wavelength	1310 nm
Connector Type	LC Duplex
Features	TAA Compliant, Digital Optical Monitoring (DOM), Hot-Pluggable
Product Dimensions	4.75 x 2.75 x 1.2 inches
UPC	195285160300

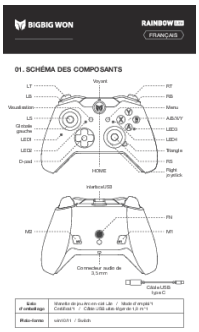
Warranty and Support

For warranty information regarding your Addon FN-TRAN-SFP+LR-AO transceiver, please refer to the documentation provided at the time of purchase or contact your reseller. AddOn products typically come with a manufacturer's warranty covering defects in materials and workmanship.
For technical support or further assistance, please contact your product vendor or the AddOn customer support team. Ensure you have your product model number and any relevant purchase details available when seeking support.

Related Documents - FN-TRAN-SFP+LR-AO

	AddOn USB 3.1 Gen 2 Travel Docking Station with LAN - User Manual Comprehensive user manual for the AddOn TRVDKC4 USB 3.1 Gen 2 Travel Docking Station. Learn about its features, specifications, and connectivity options including HDMI, Gigabit Ethernet, USB-C, and USB-A ports.

	[FortiSwitch Ordering Guide: Product Offerings and Specifications] Comprehensive ordering guide for Fortinet FortiSwitch network switches, detailing product offerings, specifications, order codes, licenses, and accessories.
	[FortiSwitch Compatible Transceivers and Cables] A comprehensive guide detailing the compatibility of various transceivers and direct-attach/split cables with FortiSwitch models, including FS-series, FG-series, and FR-series transceivers.
	[Instrukcja obsługi klimatyzatora FINLUX Flora] Instrukcja obsługi klimatyzatorów FINLUX Flora. Zawiera szczegółowe informacje dotyczące bezpiecznej instalacji, obsługi, konserwacji oraz specyfikacje techniczne dla modeli FN-AC1S.
	[BIGBIG WON Rainbow Lite Controller User Manual] Comprehensive user manual for the BIGBIG WON Rainbow Lite wired controller, detailing its features, connection, mode switching, lighting effects, button mapping, macro recording, rapid


BIGBIG WON
RAINBOW
FRANÇAIS
01. SCHÉMA DES COMPOSANTS
02. CONNEXION
03. CHANGEMENT DE MODE
04. EFFET LUMINEUX
05. MAPPING
06. RAFALE
07. ENREGISTREMENT MACRO
08. COMMUTATION DE LA BANDE MORTE DE LA BIELLE
09. GÂCHETTE RAPIDE
10. ÉTALONNAGE DE LA GÂCHETTE À BIELLE
11. CAPTURES D'ÉCRAN
12. AUDIO
13. RÉGLAGE DE 6 VIBRATIONS
14. RÉINITIALISATION EN UN CLIC
15. INSTRUCTIONS DE L'ALLÉE D'UTILISATION

trigger, stick calibration, screenshot functionality, audio support, vibration settings, and warranty.

[Guide to Locating Wireless Switches on Laptop Models]

A comprehensive guide detailing the location of wireless (Wi-Fi) activation switches and function keys across various laptop brands and models, including Acer, Dell, HP, Lenovo, Toshiba, and more.

Documents - AddOn – FN-TRAN-SFP LR-AO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FN-TRAN-SFP+LR-AO

Fortinet® FN-TRAN-SFP+LR Compatible TAA 10GBase-LR SFP+ Transceiver (SMF, 1310nm, 10km, LC, DOM)

Features

- SFF-8432 and SFF-8472 Compliance
- Uncooled DFB transmitter and PIN receiver
- Duplex LC Connector
- Commercial Temperature 0 to 70 Celsius
- Single-mode Fiber
- Hot Pluggable
- Excellent ESD Protection
- Metal with Lower EMI
- RoHS Compliant and Lead Free

Applications

- 8x/16x Fibre Channel
- 10GBase-LR Ethernet
- Access, Datacenter and Enterprise
- Mobile Fronthaul CPRI/OBSAI

Product Description

This Fortinet® FN-TRAN-SFP+LR compatible SFP+ transceiver provides 10GBase-LR throughput up to 10km over single-mode fiber (SMF) using a wavelength of 1310nm via an LC connector. It is guaranteed to be 100% compatible with the equivalent Fortinet® transceiver. This easy to install, hot swappable transceiver has been programmed, uniquely serialized and data-traffic and application tested to ensure that it will initialize and perform identically. Digital optical monitoring (DOM) support is also present to allow access to real-time operating parameters. This transceiver is Trade Agreements Act (TAA) compliant. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

AddOn's transceivers are RoHS compliant and lead-free.

TAA refers to the Trade Agreements Act (19 U.S.C. & 2501-2581), which is intended to foster fair and open international trade. TAA requires that the U.S. Government may acquire only "U.S. – made or designated country end products."

TAA COMPLIANT

Rev. 092623

[pdf] Datasheet

Fn tran sfp lr ao Datasheet Fortinet Compatible Taa 10gbase Sfp Transceiver smf Click here for Additional 1AddOn SFP Module FN TRAN LR AO FireOwls Corporation1068048116content etilize 1 1068048116 |||

FN-TRAN-SFP LR-AO Fortinet FN-TRAN-SFP LR Compatible TAA 10GBase-LR SFP Transceiver SMF, 1310nm, 10km, LC, DOM Features SFF-8432 and SFF-8472 Compliance Uncooled DFB transmitter and PIN receiver Duplex LC Connector Commercial Temperature 0 to 70 Celsius Single-mode Fiber Hot Pluggable Exce...

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