AI Smart Managed 25G SFP28/SFP+ (3R) Repeater OEO Converter

Features

- ► Mobile APP / Web Management: Monitoring and control via self-developed Mobile APP or Web interface.
- ► Build-in Front Panel Screen Display: Front panel screen with buttons displays page by page the real-time information including current, voltage, temperature, TX/RX optical power, data rate.
- ► User-Friendly Interface: Simplified and visual design, highlighting key parameters, makes it easy for even nonprofessionals to operate and maintain devices.
- ► Type-C port for easy access to device.
- ► Support loop-back test.
- ► Support SFP28/SFP+ 10.3125G ~ 25.78125G (Software Option Acceptable)
- ► Support 3R function (Re-amplify, Re-shape and Re-time)

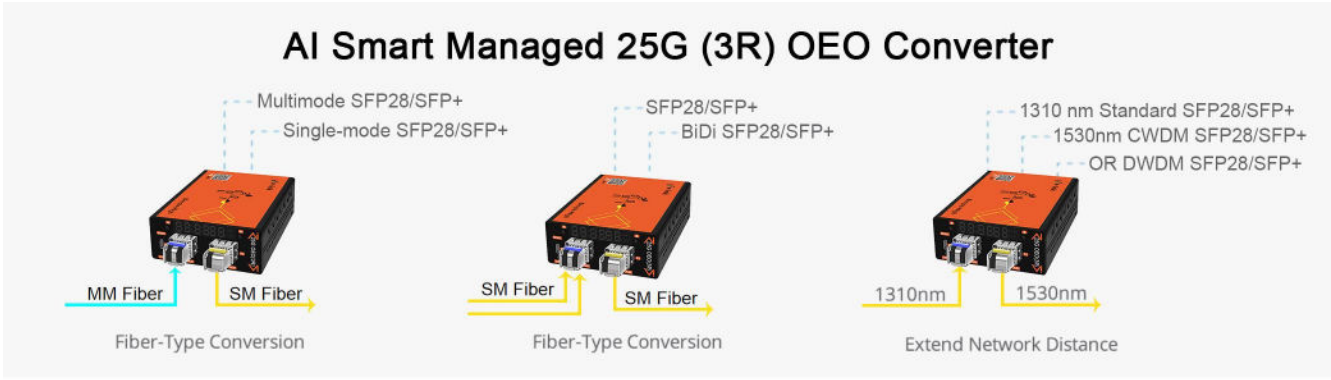


Overview

The LNK-AI2802-OEO-3R series 25G (3R) OEO Converter is part of E-link's independently developed AI NETWORK series, redefining device management with intelligent features designed to enhance efficiency and reduce costs. It eliminates the need for dedicated test equipment, allowing users to configure devices and monitor real-time status—including power and port conditions, as well as detailed SFP module data such as optical power, wavelength, transmission distance, data rate, and temperature—directly via a mobile app or the built-in display. Designed for ease of use, it incorporates multiple alarm mechanisms and streamlined maintenance workflows, significantly reducing installation and operational expenses. This provides a highly cost-effective line management solution tailored to the demands of modern networks.

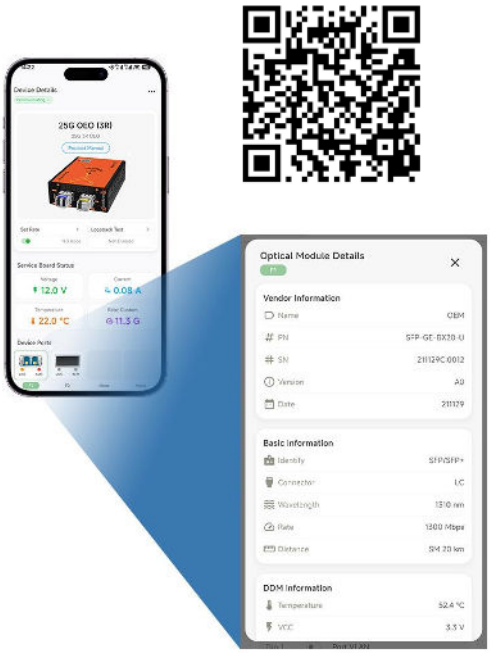
The converter is suitable for network backbone applications, including SAN, LAN, and MAN infrastructures. It supports SDH/SONET STM-64/OC-192, 25G Fiber Channel, and 25G Ethernet standards, making it ideal for deployment in R&D laboratories, data centers, and telecommunications rooms. Additionally, it features optical wavelength conversion for 1310 nm, 1550 nm, CWDM, and DWDM, and supports loopback testing for enhanced diagnostics.

Application





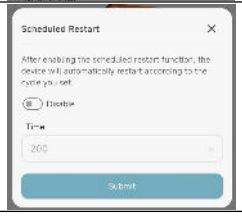
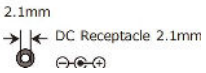
E-link App and PC Web







Technical Indexes

AI Smart Managed 25G(3R) OEO Converter		
Access Mode	Multi-rate 10.3125G-25.78125G (Software Option Acceptable) SFP+ to SFP+ slot 25G(3R) OEO Converter Support 3R function	
Fiber Ports		
Transmission Speed	25G: 10.3125G-25.78125Gb/s	
Optical Port F1	1 x SFP28/SFP+ 10.3125G-25.78125Gb/s (Software Option Acceptable) Support 3R function	
Optical Port F1	1 x SFP28/SFP+ 10.3125G-25.78125Gb/s (Software Option Acceptable) Support 3R function	
Interface port		
Management Port	Standard Type-C port for easy access to device	
Display Screen	Display voltage, current, temperature and two optical modules TX/RX power, data rate	
AI Smart Managed Functions		
Service Board Status	Temperature	
	Voltage	
	Current	
SFP Port F1 (Support 3R function)	Link Status	
	PN/SN	
	TX Power	
	RX Power	
	All DDM Information	
SFP Port F2 (Support 3R function)	Link Status	
	PN/SN	
	TX Power	
	RX Power	
	All DDM Information	
Fiber Port Alarm	Support	
Scheduled Reset	Support	
Electrical and Mechanical		
Input Power	5~58V DC, 5.5 x 2.1 mm Power Socket	
	External AC-to-DC Adapter	
Power Consumption	1W (Not Include SFP modules)	

Dimensions (W x D x H)	93 x 71 x 29 mm
Weight	100g
Casing	Aluminum Case
Mounting Options	Desktop or mounted on standard 14 slots rack
LED Indicators	
SYS	Blink(green): Running
	Blink(orange): USB data transmission
F1 (LNK)	On(green): Signal lock
	Blink: Signal unlock with optical power normal
	On(orange): Optical power abnormal with optical module plug-in
	Off: No optical module
F1 (ALM)	On(red): Optical power alarm
	On(orange): Optical power warning
	Off: Optical power normal
F2 (LNK)	On(green): Signal lock
	Blink: Signal unlock with optical power normal
	On(orange): Optical power abnormal with optical module plug-in
	Off: No optical module
F2 (ALM)	On(red): Optical power alarm
	On(orange): Optical power warning
	Off: Optical power normal
Environmental	
Operating Temperature	-20° C to 70° C (-20° F to 162° F)
Storage Temperature	-40° C to 85° C (-40° F to 185° F)
Relative Humidity	5% to 95% non-condensing
MTBF	> 200,000 hrs
Regulatory Approvals	
ISO9001, CE, FCC Part 15 Class A, RoHS	

Ordering Information

Model	Description
LNK-AI2802-OEO-3R	AI Smart Managed 25G SFP28/SFP+ (3R) OEO Converter 10.3125G-25.78125Gb/s (Software Option Acceptable) Support 3R function
SFP Options	► SFP option. Please select your SFP on our SFP Options Page.
	► SFP module is to be purchased separately.