AI Smart Managed 10/100/1000/2500Mbps Fiber Media Converter

Features

- E-link's newly self-developed mobile APP and PC-based intelligent Web management.
- One-click screen display: System current, voltage, temperature; Optical module transmit power, receive power; Ethernet/Fiber port rates, etc.
- APP/Web management functions: Graphical interface presenting detailed device information; SFP module information and DDM data; User-defined optical power thresholds; User-defined scheduled reboot, etc.
- It moves away from traditional complex management interfaces by featuring a lightweight interface with highlighted key parameters, facilitating on-site debugging and maintenance by non-professionals.
- Ethernet port: 1 x 10/100/1000/2500M RJ45.
- Fiber port: 1 x 1.25G/2.5G SFP.



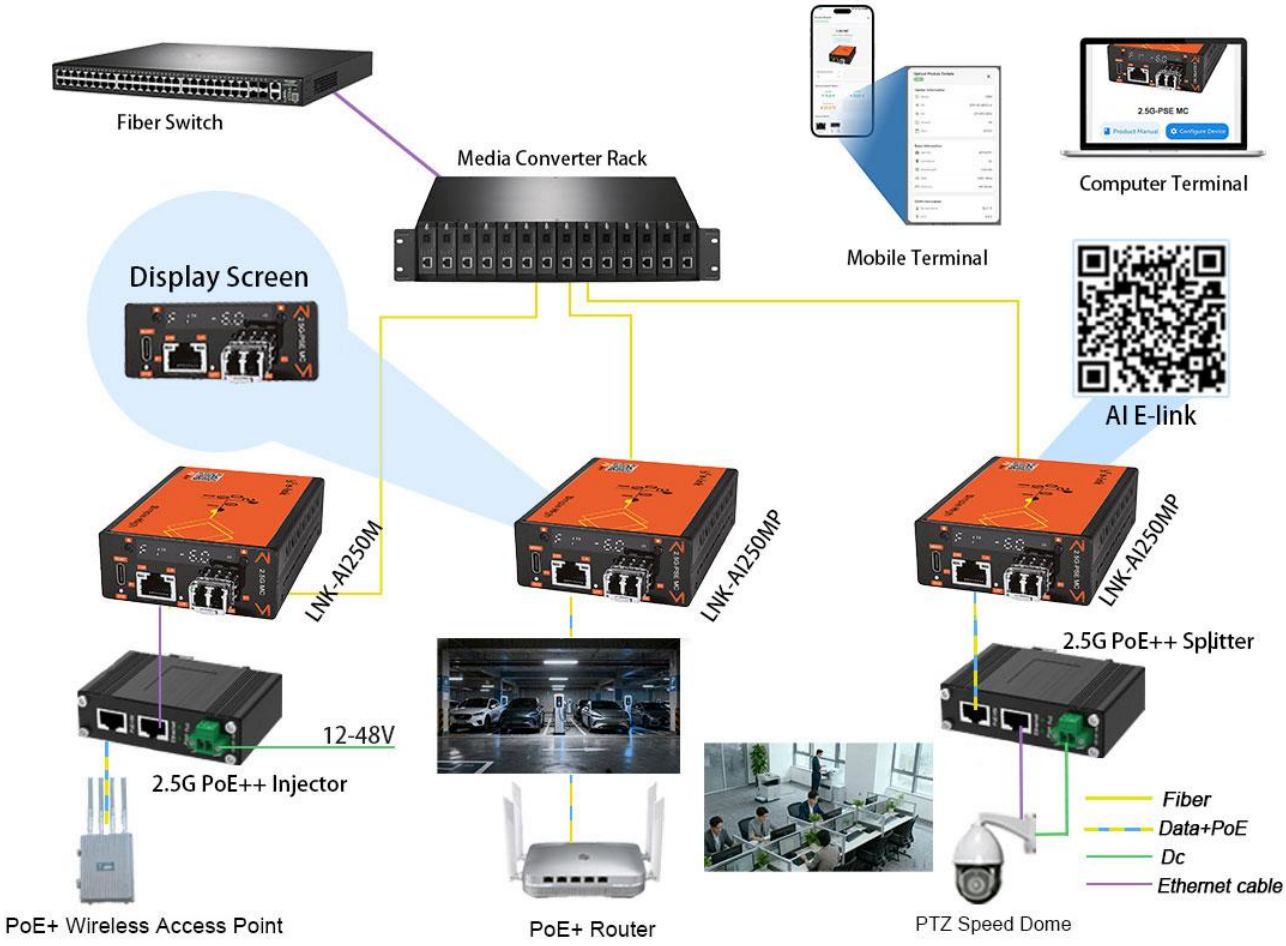
Overview

The LNK-AI2500M-SFP AI Smart Managed Media Converter is an innovative, independently developed AI-managed device from E-link. Designed for intuitive operation, it enables easy configuration and real-time monitoring via a mobile app or web interface without the need for additional test equipment. Users can access vital information such as power status, SFP and Ethernet port conditions, and detailed SFP module diagnostics including optical power, wavelength, distance, data rate, and temperature.

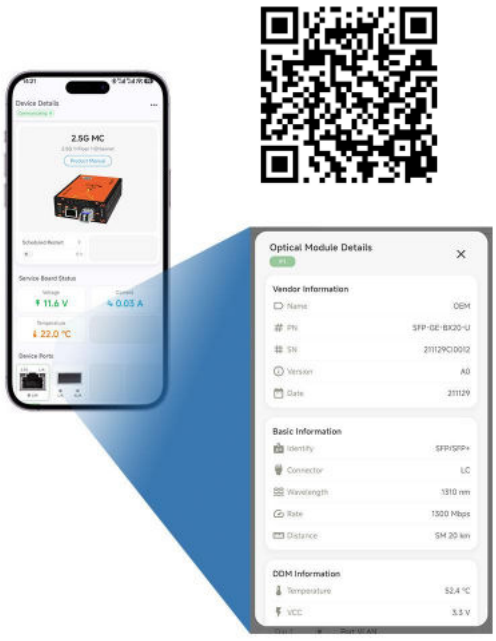
Combining comprehensive features, streamlined operation, multiple real-time alarm systems, and efficient maintenance capabilities, this converter significantly reduces both installation and ongoing operational costs. It offers a high-performance, cost-effective line management solution well-suited for the AI era.

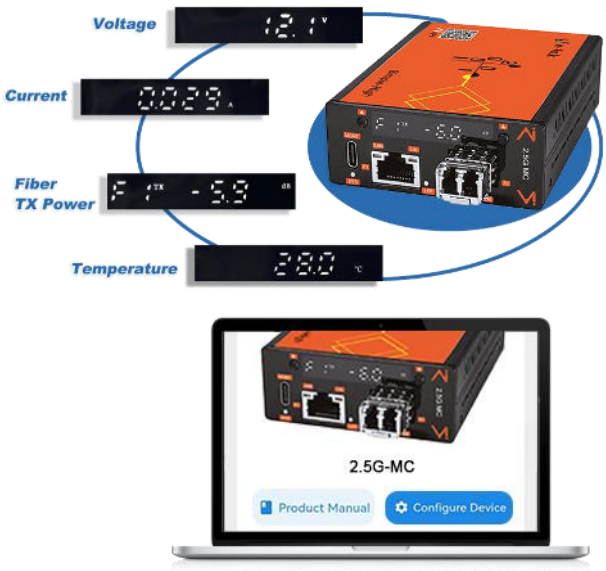
Widely applicable across various critical environments, the LNK-AI2500M-SFP is ideal for use in forest fire prevention systems, water area monitoring, highways, urban roads, rail transit networks, high-end office buildings, petrochemical facilities, and automated equipment communication and monitoring.

Application

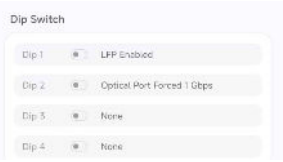


E-link App and PC Web





Technical Indexes

AI Smart Managed 10/100/1000/2500Mbps Gigabit Fiber Media Converter			
Access Mode	1000/2500BASE-X SFP to 10/100/1000/2500BASE-T RJ45		
Ethernet			
Standards:	Standards Compliance IEEE 802.3 Ethernet		
	IEEE 802.3u Fast Ethernet		
	IEEE 802.3ab Gigabit Ethernet		
	IEEE 802.3az (Energy Efficient Ethernet)		
	IEEE 802.3bz(2.5GBASE-T)		
	IEEE802.3x		
Processing Type	Store-and-Forward		
Forward Filter Rate	14,880pps (10Mbps)		
	148,800pps (100Mbps)		
	1,488,000pps (1000Mbps)		
	2,976,000pps (2500Mbps)		
Packet Buffer Memory	1 Mbit		
Max Packet Length	9K Bytes		
AI Smart Managed Functions			
Service Board Status	Temperature		
	Voltage		
	Current		
RJ45 Port Status	Link Status		
	Rate		
	LFP Status		
SFP Port Status	Link Status		
	PN/SN		
	TX Power		
	RX Power		
	All DDM Information		
DIP Switch	Dip1	LFP	 
	Dip2	Force fiber port to 1.25G	
	Dip3	NC	
	Dip4	NC	
Fiber Port Alarm	Support		

Scheduled Reset	Support	
Interface Port		
Ethernet Port	10/100/1000/2500BASE-T Ethernet RJ45 interface Auto-negotiation, auto MDI/MDI-X	
	Cable: Cat 3/4/5/6/7 UTP Cable	
SFP Port	1 x 1.25G/2.5G SFP	
	Cable: Multi-Mode: 50/125um or 62.5/125um fiber optic cable, distance: 550m/2km; Single Mode: 9/125um fiber optic cable, distance: 20/40/80/100/120/160/200km	
Electrical and Mechanical		
Input Power	5~58V DC, 5.5 x 2.1 mm Power Socket	
	External AC-to-DC Adapter	
Power Consumption	3W Max.	
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	Green LED Slow Blink: Operating normally	
	Orange LED Blink: Data communication in progress	
P1 1G	Solid On: Ethernet port link rate is 2.5G	
	Off: Ethernet port no link or link rate is 10M/100M/1000M	
P1 L/A	Solid On: Ethernet port link established	
	Blinking: Data transmission	
	Off: Ethernet port no link	
F1 L/A	Solid On: SFP port link established	
	Blinking: Data transmission	
	Off: SFP port no link	
F1 ALM	Red LED Solid On: Received optical power below threshold	
	Orange LED Solid On: Received optical power near threshold	
	Off: Received optical power normal	
LFP	Solid On: LFP function enabled	
	Blinking: SFP port or Ethernet port forcibly closed or connection interrupted	
	Off: LFP function not enabled	
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-AI2500M-SFP	1-Port 1000/2500Base-X SFP to 1-Port 10/100/1000/2500BASE-T AI Smart Managed Fiber Media Converter, Include AC-DC Power Adapter
SFP Options	► SFP option. Please select your SFP on our SFP Options Page.
	► SFP module is to be purchased separately.