AI Smart Managed 10/100/1000Mbps Gigabit 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 10/100/1000M RJ45
- Fiber port: 1 x 100/1000M SFP



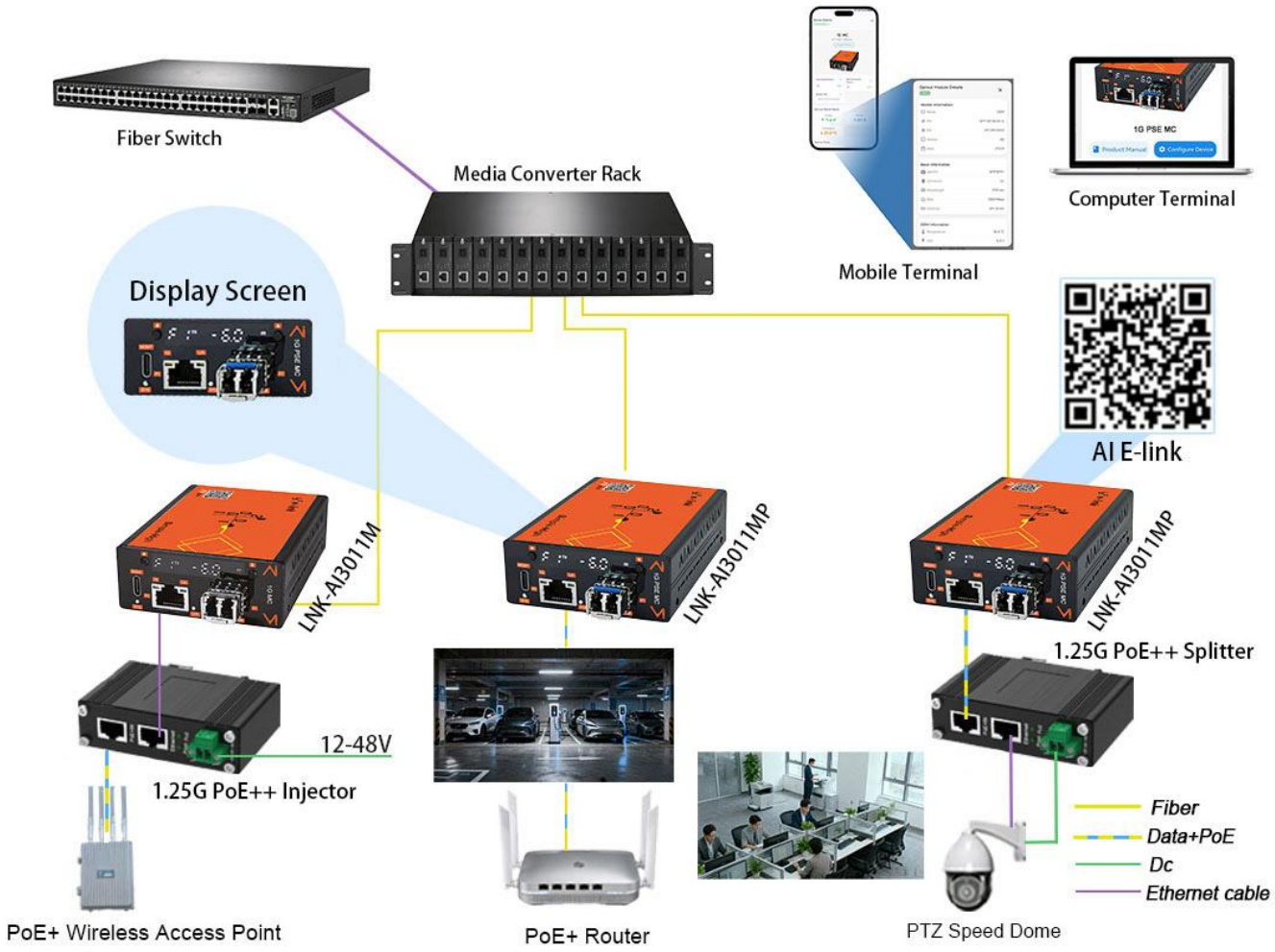
Overview

The LNK-AI3011M-SFP AI Smart Managed Media Converter is an innovative, AI-driven device designed and developed independently by E-link. It enables intuitive management via a mobile app or web interface, eliminating the need for additional test instruments. Users can monitor real-time device status, including power, SFP/Ethernet port conditions, and detailed SFP module parameters such as optical power, wavelength, transmission distance, data rate, and temperature.

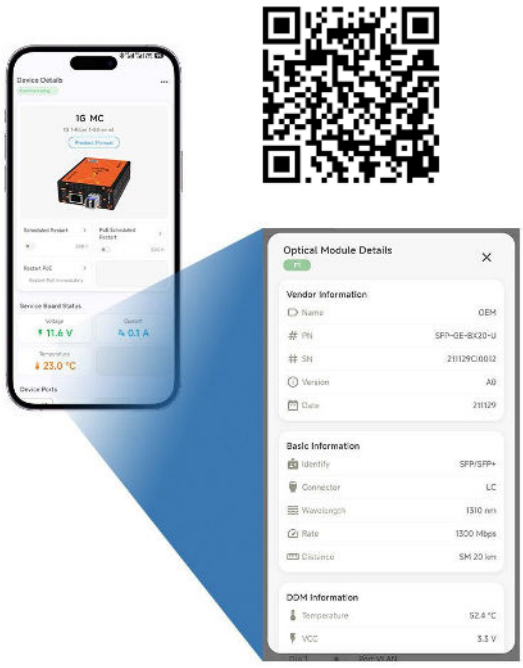
Combining comprehensive features, simple operation, multiple real-time alarm methods, and streamlined maintenance workflows, it significantly reduces installation and operational costs. This high-value solution delivers an intelligent, cost-effective line management system tailored for the AI era.

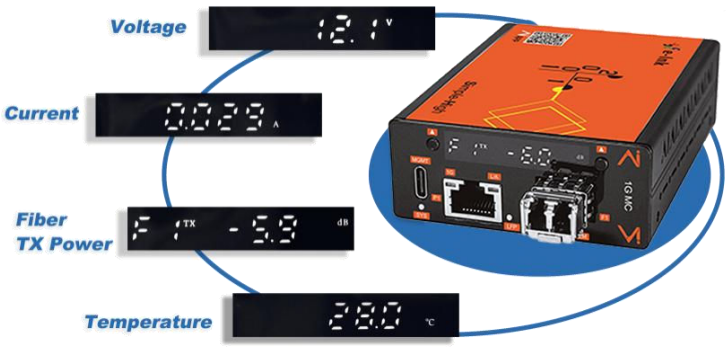
The converter is widely suitable for critical applications including forest fire prevention, water area monitoring, highways, urban roads, rail transit, high-end office buildings, petrochemical facilities, and automated equipment communication and monitoring.

Application



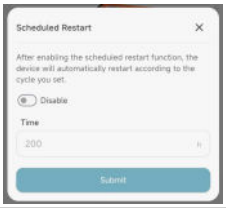
E-link App and PC Web







Technical Indexes

AI Smart Managed 10/100/1000Mbps Gigabit Fiber Media Converter			
Access Mode	100/1000BASE-X SFP to 10/100/1000BASE-T RJ45		
Ethernet			
Standards:	Standards Compliance IEEE 802.3 Ethernet		
	IEEE 802.3u Fast Ethernet		
	IEEE 802.3ab Gigabit Ethernet		
	IEEE 802.3z Gigabit SX/LX		
Processing Type	Store-and-Forward		
Forward Filter Rate	14,880pps (10Mbps)		
	148,800pps (100Mbps)		
	1,488,000pps (1000Mbps)		
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	10M	
	Dip3	NC	
	Dip4	NC	
Fiber Port Alarm	Support		
Scheduled Reset	Support		

Interface Port		
Ethernet Port	10/100/1000BASE-T Ethernet RJ45 interface Auto-negotiation, auto MDI/MDI-X	
	Cable: Cat 3/4/5/6/7 UTP Cable	
SFP Port	1 x 100/1000M SFP (auto detection)	
	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 1000M	
	Off: Ethernet port no link or link rate is 10M/100M	
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-AI3011M-SFP	1-Port 100/1000Base-X SFP to 1-Port 10/100/1000BASE-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.