AI Smart Managed 2-port 100/1000X SFP to 1-port 10/100/1000T Fiber Media Converter

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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: 2 x 100/1000M SFP



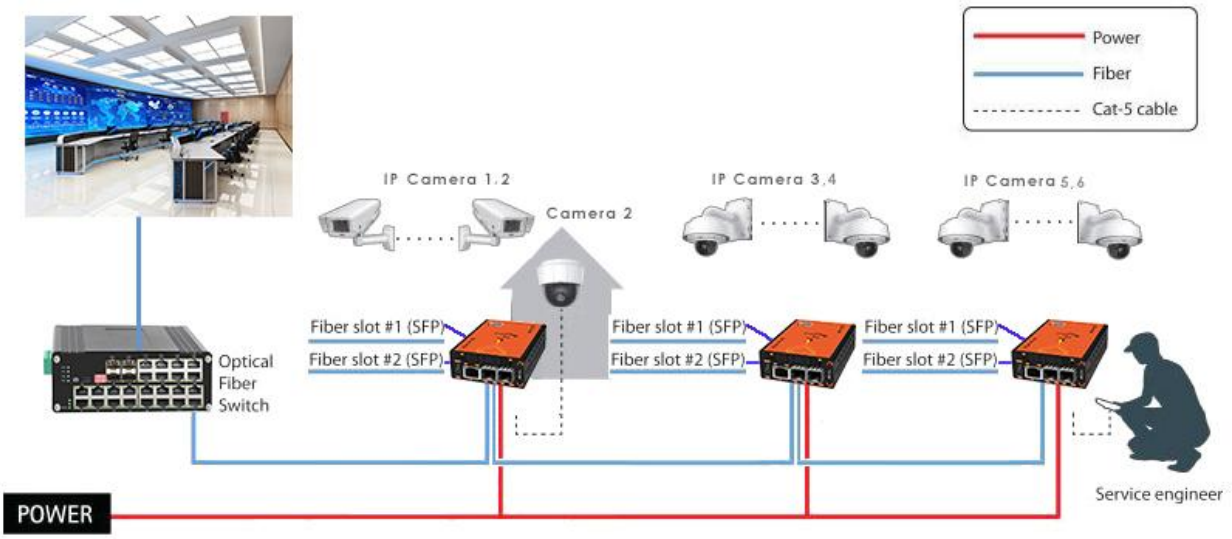
Overview

The LNK-AI2100M-SFP AI Smart Managed Fiber Media Converter is an innovative, independently developed AI-managed device from E-link. It allows users to configure and monitor the device in real time through a mobile app or web interface, eliminating the need for external test equipment. Users can access key operational data such as power status, SFP and Ethernet port conditions, and comprehensive SFP module diagnostics including optical power, wavelength, transmission distance, data rate, and temperature.

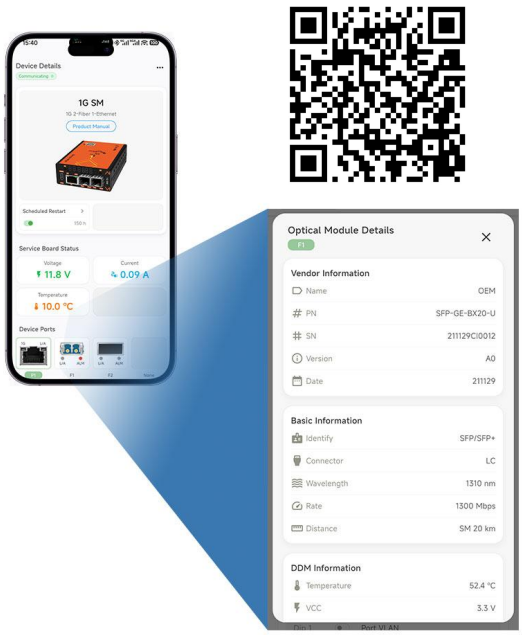
Featuring a complete set of functions, intuitive operation, multiple real-time alert mechanisms, and streamlined maintenance support, this converter significantly reduces both installation and long-term operational costs. It delivers a high-performance, cost-effective line management solution designed for the demands of the AI era.

The converter is widely suitable for various demanding applications, including forest fire prevention, water area monitoring, highway and urban road networks, rail transit, high-end office buildings, petrochemical facilities, and communication and monitoring for automated equipment.

Application



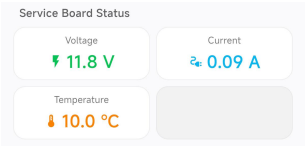
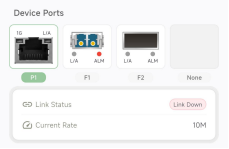
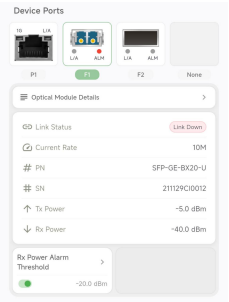
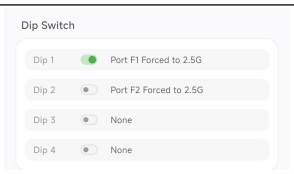
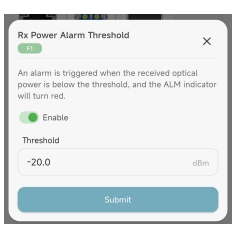
E-link App and PC Web

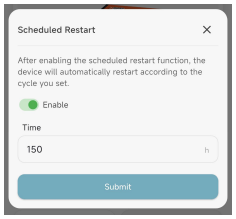






Technical Indexes

AI Smart Managed 2-port 100/1000X SFP to 1-port 10/100/1000T Fiber Media Converter			
Access Mode	2 x 100/1000BASE-X SFP to 1 x 10/100/1000BASE-T RJ45		
Ethernet			
Standards:	Standards Compliance IEEE 802.3 Ethernet		
	IEEE 802.3u Fast Ethernet		
	IEEE 802.3ab Gigabit Ethernet		
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		
	PSE Supply Voltage		
	PSE Power Consumption		
	Power Pin Assignment		
SFP Port Status	Link Status		
	PN/SN		
	TX Power		
	RX Power		
	All DDM Information		
DIP Switch	Dip1	F1: 2.5G	 
	Dip2	F2: 2.5G	
	Dip3	NC	
	Dip4	NC	
Fiber Port Alarm	Support		

Scheduled Reset	Support	
Interface port		
Ethernet Port	1 x 10/100/1000BASE-T Ethernet RJ45 interface Auto-negotiation, auto MDI/MDI-X	
	Cable: Cat 3/4/5/6/7 UTP Cable	
SFP Port	2 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 2.1mm 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	Blink(green): Running	
	Blink(orange): USB data transmission	
P1 1G	On: Link up 1G	
	Off: No link or Link up 10M/100M	
P1 L/A	On: Link up	
	Blink: Data activity	
	Off: No link	
F1 L/A	On: Link up	
	Blink: Data activity	
	Off: No link	
F1 ALM	On(red): Optical power alarm	
	On(orange): Optical power warning	
	Off: Optical power normal	
F2 L/A	On: Link up	
	Blink: Data activity	
	Off: No link	
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-AI2100M-SFP	2-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.