AI Smart Managed 1-port 100/1000X SFP to 2-port 10/100/1000T PoE 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: 2 x 10/100/1000M RJ45
- Fiber port: 1 x 100/1000M SFP
- IEEE 802.3af/at/bt 95W PoE++ PSE



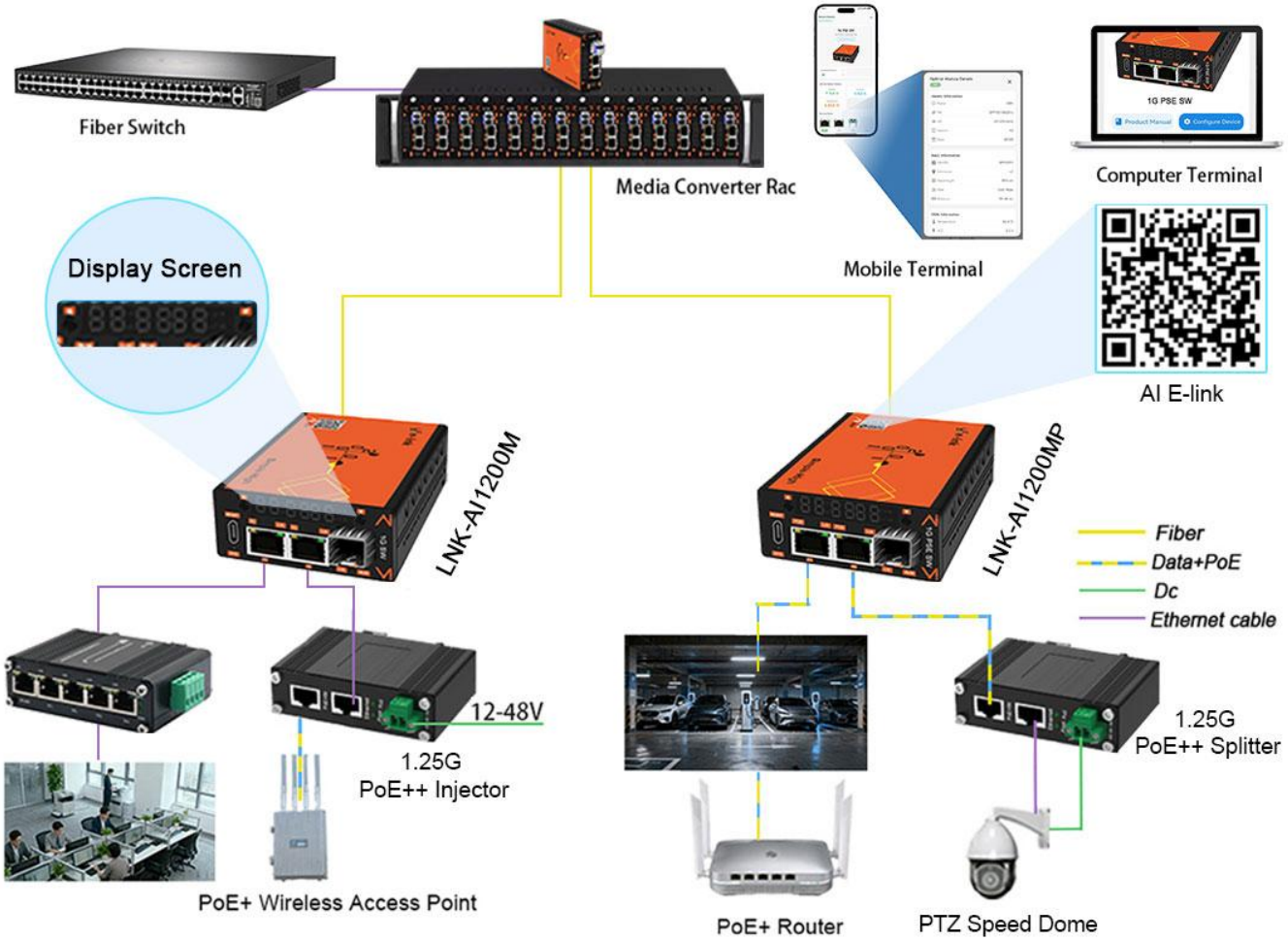
Overview

The LNK-AI1200MP-SFP Series AI Smart Managed PoE Media Converter is an innovative, independently developed AI-driven device from E-link. It enables intuitive management and real-time monitoring through a mobile app or web interface, eliminating the need for external test equipment. Users can access key operational data, including power status, SFP and Ethernet port conditions, and comprehensive SFP module diagnostics such as optical power, wavelength, transmission distance, data rate, and temperature.

Featuring a full set of functions, streamlined operation, multiple real-time alert mechanisms, and efficient maintenance workflows, this converter significantly reduces both installation and operational costs. It delivers a high-performance, cost-effective line management solution tailored to the demands of the AI era.

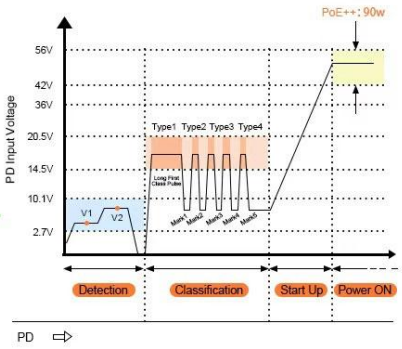
The converter is widely suitable for various demanding applications, including forest fire prevention, water area monitoring, highways, urban roads, rail transit, high-end office buildings, petrochemical facilities, and communication and monitoring for automated equipment.

Application

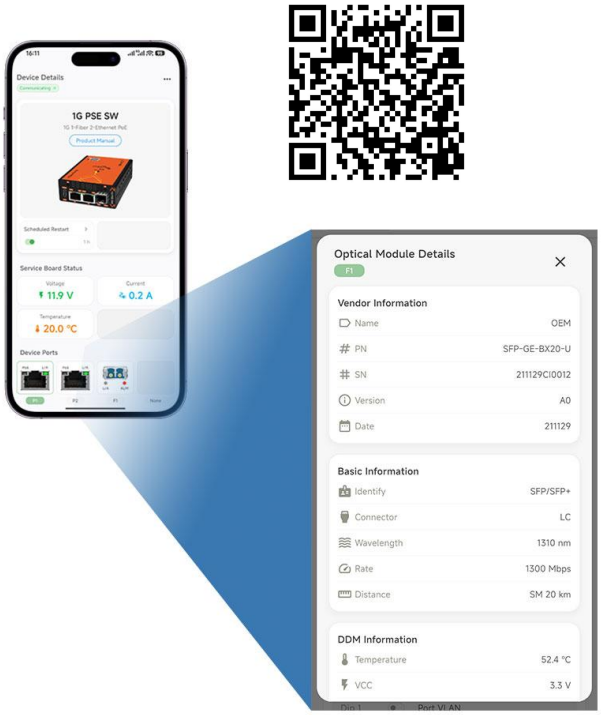




Utilizing hardware IEEE802.3af/at/bt PoE chipset, it automatically powers up PD device with 4 steps (PD Detection -> PoE Classification -> Start Up -> Power ON). Itallocates appropriate power to IEEE802.af/at/bt PoE devices, and no power for non-PoE devices.It ensures high safety for PoE and Non-PoE devices.



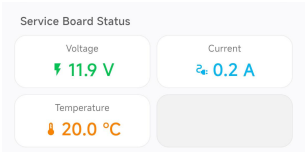
E-link App and PC Web

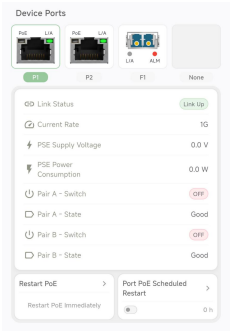
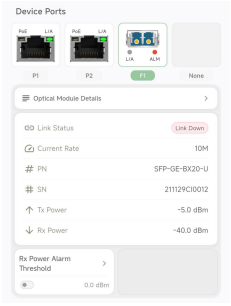
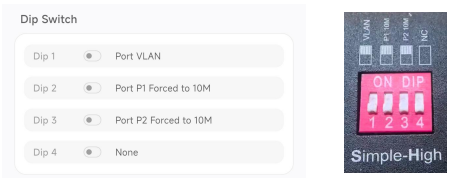
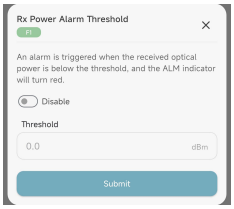
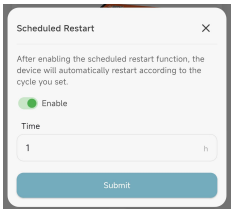
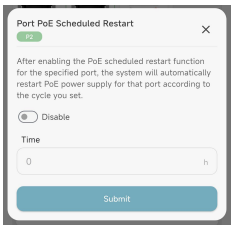






Technical Indexes

AI Smart Managed 1-port 100/1000X SFP to 2-port 10/100/1000T PoE Fiber Media Converter		
Access Mode	1 x 100/1000BASE-X SFP to 2 x 10/100/1000BASE-T RJ45 PSE IEEE802.3af/at/bt 95W	
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	

<table>
<tr><td rowspan="6">RJ45 Port Status</td><td colspan="2">Link Status</td><td rowspan="6">
</td></tr>
<tr><td colspan="2">Rate</td></tr>
<tr><td colspan="2">LFP Status</td></tr>
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<tr><td colspan="2">PN/SN</td></tr>
<tr><td colspan="2">TX Power</td></tr>
<tr><td colspan="2">RX Power</td></tr>
<tr><td colspan="2">All DDM Information</td></tr>
<tr><td rowspan="4">DIP Switch</td><td>Dip1</td><td>VLAN</td><td rowspan="4">
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<tr><td>Dip2</td><td>P1 10M</td></tr>
<tr><td>Dip3</td><td>P2 10M</td></tr>
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<tr><td>PoE Power Scheduled</td><td colspan="2">Support</td><td>
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<tr><td rowspan="2">Ethernet Port</td><td colspan="3">2 x 10/100/1000BASE-T Ethernet RJ45 interface Auto-negotiation, auto MDI/MDI-X</td></tr>
<tr><td colspan="3">Cable: Cat 3/4/5/6/7 UTP Cable</td></tr>
<tr><td rowspan="2">SFP Port</td><td colspan="3">1 x 100/1000M SFP (auto detection)</td></tr>
<tr><td colspan="3">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</td></tr>
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PoE (Power over Ethernet)		
Standard	IEEE 802.3af/at/bt PoE++ PSE (af: 15.4W, at: 30W, bt type3: 60W, bt type4: 95W	
PoE Power Output	95W max.	
Power Pin Assignment	End-span + Mid-span:1/2(+), 4/5(+), 3/6(-), 7/8(-)	
PoE Budget	Up to 95W PoE budget (44-58V DC)	
PoE Power Supply Type	802.3bt, End-span + Mid-span (Please contact customer service)	
PoE Mode	90W IEEE802.3bt compatible with Mode A, Mode B. 30W IEEE802.3at compatible with Mode B, if need Mode A please contact customer service)	
Electrical and Mechanical		
Input Power	44~58V 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 PoE	On: Connected PD	
	Off: Not connected PD	
P1 L/A	On: Link up	
	Blink: Data activity	
	Off: No link	
P2 PoE	On: Connected PD	
	Off: Not connected PD	
P2 L/A	On: Link up	
	Blink: Data activity	
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	
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-AI1200MP30-SFP	1-Port 100/1000Base-X SFP to 2-Port 10/100/1000BASE-T AI Smart Managed PoE+ Fiber Media Converter, IEEE802.3at **30W**, Include AC-DC Power Adapter
LNK-AI1200MP60-SFP	1-Port 100/1000Base-X SFP to 2-Port 10/100/1000BASE-T AI Smart Managed PoE++ Fiber Media Converter, IEEE802.3bt **60W**, Include AC-DC Power Adapter
LNK-AI1200MP90-SFP	1-Port 100/1000Base-X SFP to 2-Port 10/100/1000BASE-T AI Smart Managed PoE++ Fiber Media Converter, IEEE802.3bt **95W**, 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.