4-Port 10/100/1000 Base-T to 2-Port 100/1000/2.5GBASE-X

Mini Industrial AI Smart Managed Fiber Ethernet Switch

Features

► Self-developed intelligent management system by E-link, supporting Android mobile APP and PC web UI

► One-click LED screen display real-time data dashboard: system current, voltage, internal temperature, SFP transmit/receive optical power, Ethernet & fiber port link speeds and more

► Rich APP & web management capabilities: intuitive graphical dashboard for full device status; complete SFP information & DDM diagnostic data; customizable optical power alarm thresholds; user-defined scheduled port/device reboot

► Wide 9–54VDC power input

► 4 X Port 10/100/1000Base-T

► 2 X 100/1000BASE-X SFP fiber uplink port

► 2 X 2.5GBASE-X SFP fiber uplink port Depend on DIP setting

► Mini Size: 98 x 67 x 46 mm

► One-click VLAN isolation

► 10M 250m transmission

► 6KV lightning surge protection on all ports

► Wide operating temperature: -40°C ~ +75°C (-40°F ~ 167°F)



Overview

The LNK-AIMC204GM is a compact AI smart managed industrial Fiber ethernert switch independently developed by E-link. Each unit is equipped with 4× 10/100/1000Base-T RJ45 port + 2×100/1000/2.5GBASE-X SFP fiber port.

This world-first innovative device combines the dual advantages of managed and unmanaged switches. Engineers can monitor device status via multiple methods: mobile APP, PC web management interface and LED Display without additional test tools.

Data cover:voltage,current, temperature, Ethernet port status, SFP port working status,as well as detailed SFP DDM parameters such as optical power, wavelength, transmission distance, link rate and module temperature.

We innovated this product based on standard switches:

Device function:Fiber Port Alarm, Scheduled System Reset,VLAN Isolation,The redundant-mode supports auto -recover function. If the destination port of a packet is link-down, it forwards the packet to the other port of the backup pair

Meets IP40, aluminum housing, works stably under harsh industrial temperatures from -40℃ to 75℃.

Equipped with dual redundant power supplies, it keeps Ethernet working stably 24X7.

Application Scenarios:

Intelligent Manufacturing & Automation: data transmission and multi-device interconnection

Power & New Energy: Surveillance communication and cluster networking.

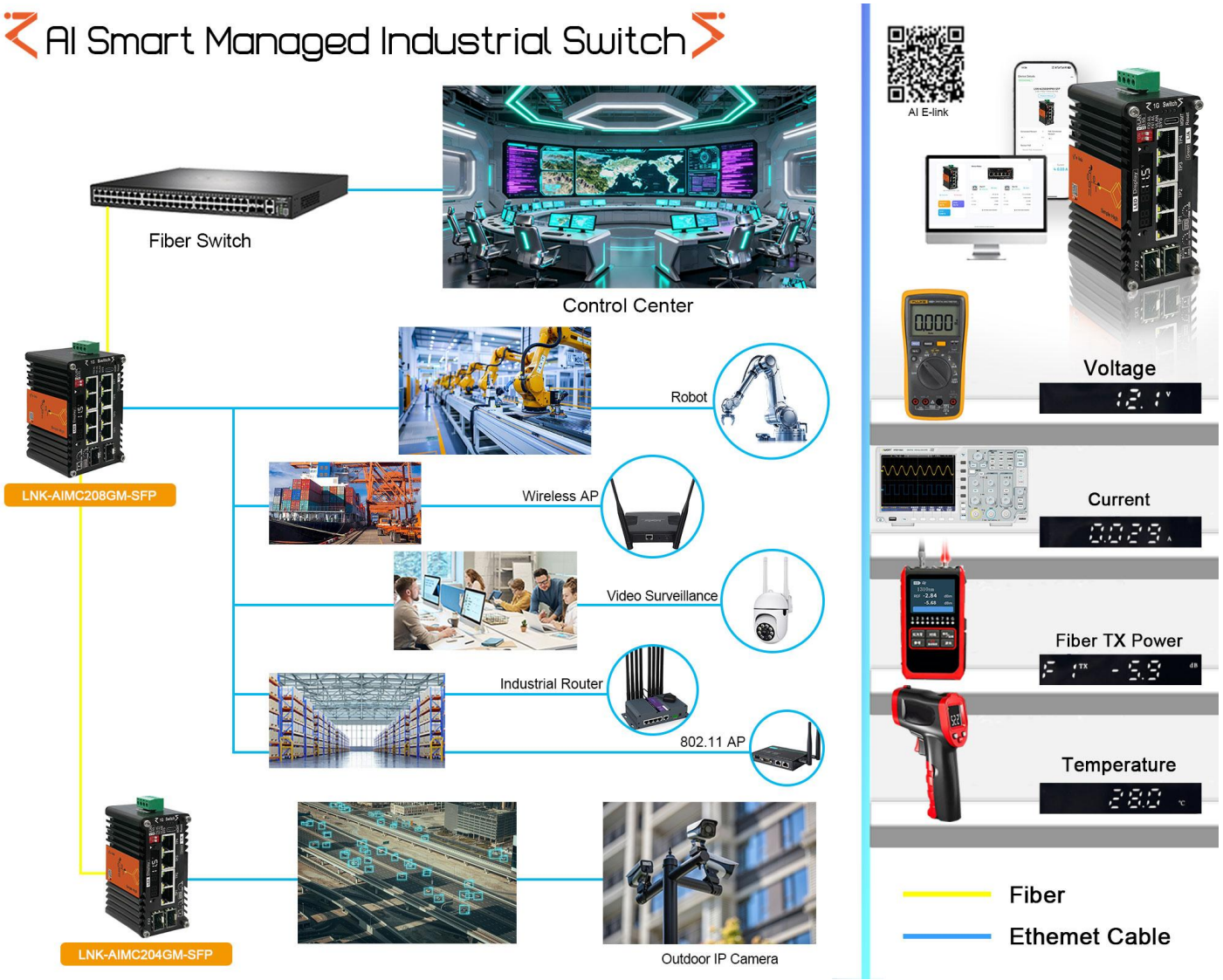
Rail Transit & Tunnel Engineering: Real-time video monitoring and signal transmission.

Oil, Gas & Mining Sites: Stable communication

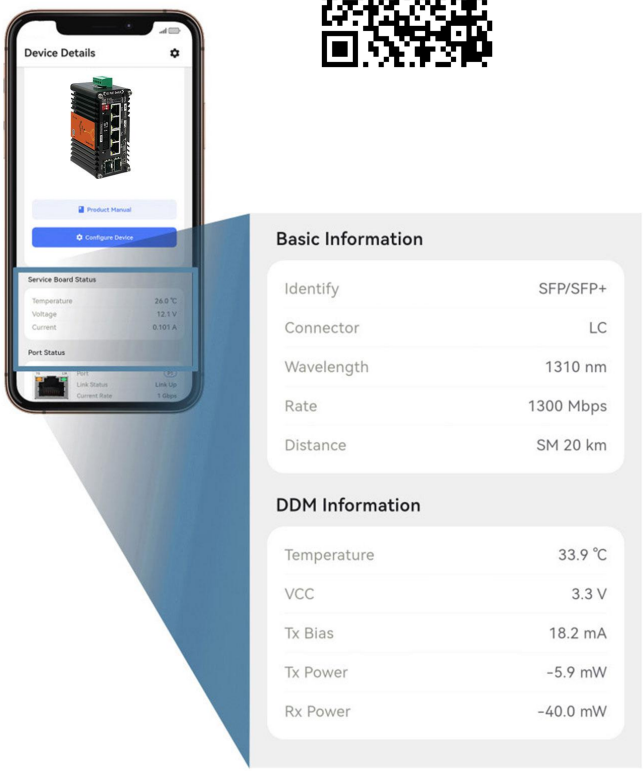
Smart City & New Infrastructure Deployment

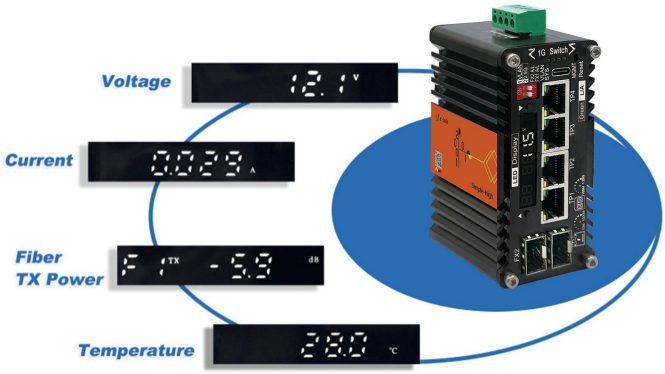
In addition, this product can be used in fields such as autonomous driving, humanoid robots, AI computing, metallurgy, chemical engineering, outdoor research base stations and field weather monitoring.

Application



E-link App and PC Web

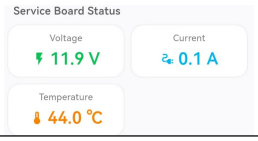
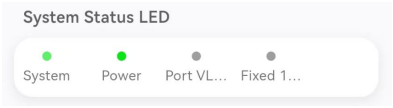
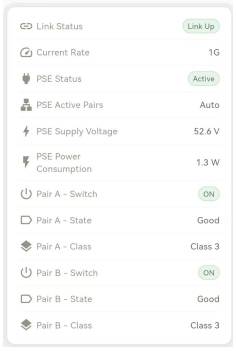
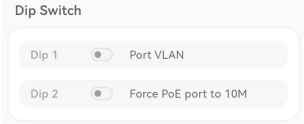


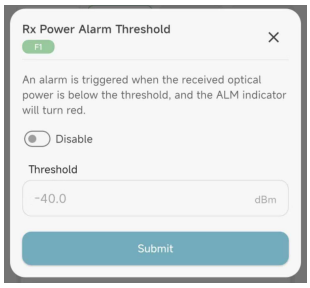
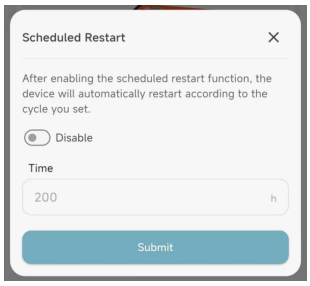




Technical Indexes

Industrial AI Smart Managed Fiber Ethernet Switch	
Access Mode	2*100/1000/2.5GBASE-X SFP to 4*10/100/1000BASE-T RJ45
Ethernet	
Standards	Standards Compliance IEEE 802.3 Ethernet
	IEEE 802.3u Fast Ethernet
	IEEE 802.3ab Gigabit Ethernet
	IEEE 802.3x Full-Duplex Flow Control
	IEEE 802.3az Energy Efficient Ethernet (EEE)
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

Switching Capacity	20Gbps/non-blocking	
PC (Support MacOS, Windows)		
MacOS Browser:	Microsoft Edge 89+ (Release date: 2021-03-04 or later version) Google Chrome 89+ (Release date: 2021-03-02 or later version) Opera 75+ (Release date: 2021-03-24 or later version)	
Windows Browser:	Microsoft Edge 89+ (Release date: 2021-03-04 or later version) Google Chrome 89+ (Release date: 2021-03-02 or later version) Opera 75+ (Release date: 2021-03-24 or later version)	
Mobile App (Support Android, Not Support iOS)		
Mobile Phone APP(Android)	Support all Android Mobile Phone and Android Tablet	
Mobile iPhone APP(iOS)	Not Support iPhone or iPad	
AI Smart Managed Functions		
Service Board Status	Temperature	
	Voltage	
	Current	
System Status LED	System	
	VLAN	
	FX1 A/L	
	FX2 A/L	
RJ45 Port Status	Link Status	
	Current Rate	
SFP Port Status	Link Status	
	PN/SN	
	TX Power	
	RX Power	
	All DDM Information	
DIP Switch	DIP1 / VLAN	
	DIP2 / 2.5G	

Fiber Port Alarm	Support	
Scheduled Reset	Support	
Interface port		
Ethernet Port	4-Port 10/100/1000BASE-T Ethernet RJ45 interface Auto-negotiation, auto MDI/MDI-X	
	1-4 port 10/100/1000BASE-T	
	Cable: Cat 5e or above; Distance: ≤100 meters at 1000M data rate	
SFP Port	2-Port 100/1000/2.5BASE-X SFP (Backward compatible with 100BASE-X and 1000BASE-X and transceivers) (auto detection)(2.5G DIP setting) 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	9~54V DC, 4-pin terminal block	
Power Consumption	5W Max	
Dimensions (W x D x H)	98 x 67x 46 mm	
Weight	300g	
Casing	Aluminum Case	
Mounting Options	DIN-Rail	
LED Indicators		
SYS	Green LED Blinking: Operating normally	
VLAN	Green Solid On: VLAN On	
	Green LED Off: VLAN Off	
FX1-2 A/L	Green LED Solid On: SFP port link established	
	Green LED Blinking: Data transmission	
	Green LED Off: SFP port no link	
	Red LED Solid On: Received optical power below threshold	
TP1-4 L/A	Green LED Solid On: Ethernet port link	
	Green LED Slow Blink: Ethernet port link rate is 10M/100M/1000M	
	Green LED Off: Ethernet port no link	
Environmental		
Operating Temperature	-40°C to 75°C (-40°F to 167°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	
EMI: EN55022:2010+AC: 2011, Class A EN 61000-3-2: 2006+A1: 2009+A2: 2009 EN 61000-3-3: 2013 EN55024: 2010	
EMS: IEC 61000-4-2: 2008 (ESD) IEC 61000-4-3: 2010 (RS) IEC 61000-4-4: 2012 (EFT) IEC 61000-4-5: 2014 (Surge) IEC 61000-4-6: 2013 (CS) IEC 61000-4-8: 2009 (PFMF)	

Ordering Information

Model	Description
LNK-AIMC204GM-SFP	Industrial AI Smart Managed 2-Port 100/1000/2.5GBase-X SFP to 4-Port 10/100/1000BASE-T Fiber Switch, 9V to 54V DC power input
SFP Options	► SFP option. Please select your SFP on our SFP Options Page.
	► SFP module is to be purchased separately.
Mounting Options	► Default DIN-Rail bracket included.
Power Options	► 24W/1A 24VDC Power Supply. Open Wire for Terminal Block
	► Power Supply is to be purchased separately.