4-Port 10/100/1000Base-T to 1-Port 10/100/1000Base-T Uplink

Mini Industrial AI Smart Managed Ethernet Switch

Features

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

► One-click LED screen display real-time data dashboard: system current, voltage, internal temperature; Ethernet port link speeds and more

► Intuitive graphical interface under APP/Web for full device status visualization

► Lightweight simplified UI replaces complicated traditional management pages, enabling easy on-site debugging and maintenance even for non-professional operators

► Wide DC input range 9V–54V

► 4 X Port 10/100/1000Base-T

► 1 X Port 10/100/1000Base-T uplink port

► 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

LNK-AIMC005GM is a compact AI smart managed industrial Ethernet switch independently developed by E-link. Equipped with 4 X Port 10/100/1000Base-T RJ45 ports + 1×Gigabit uplink RJ45 port.

This world-first innovative switch 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,

We innovated this product based on standard switches:

Device function: Scheduled System Reset.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.

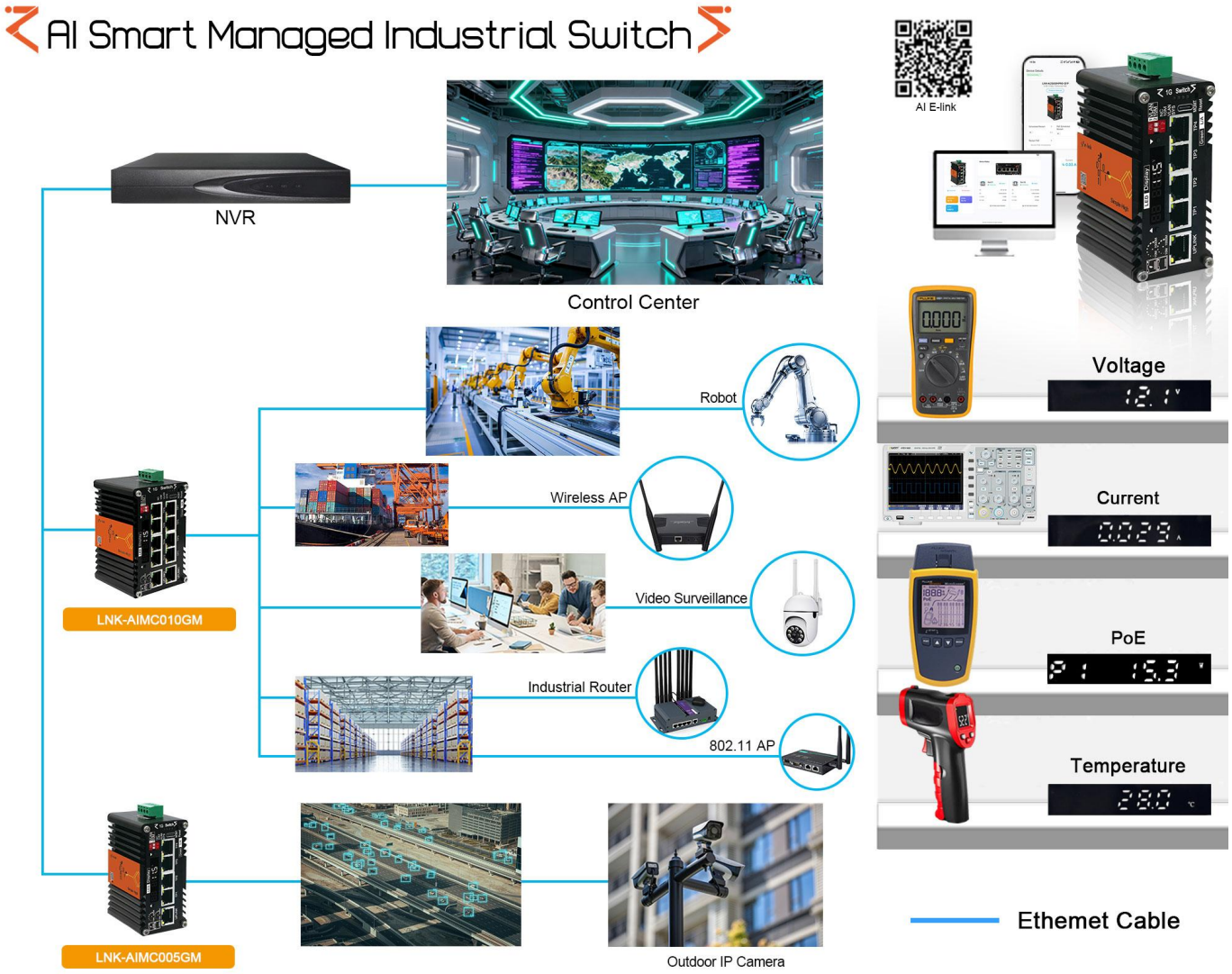
Rail Transit & Tunnel Engineering: Real-time video monitoring and signal transmission.

Oil, Gas & Mining Sites: Stable communication

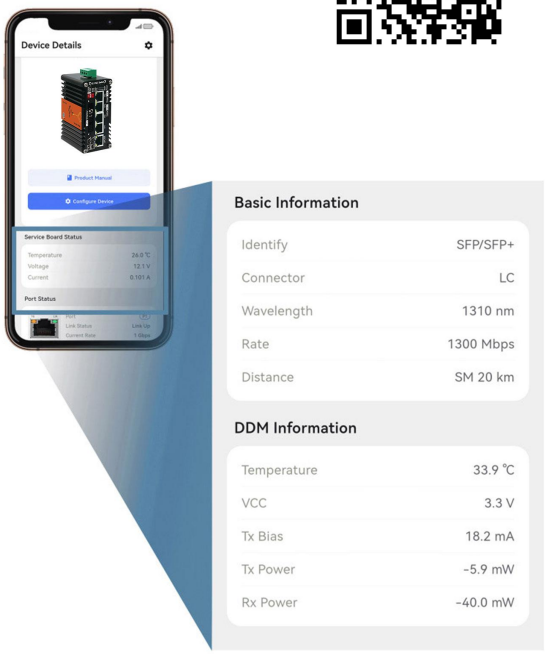
Smart City & New Infrastructure Deployment

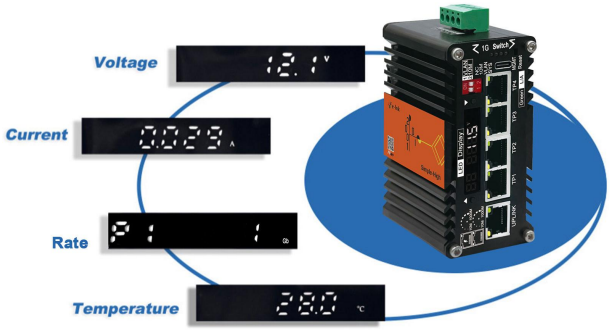
In addition, this product can be used in fields such as autonomous driving, humanoid robots, AI computing, metallurgy, chemical engineering, outdoor research base stations and field weather monitoring.

Application



E-link App and PC Web

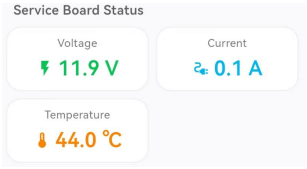
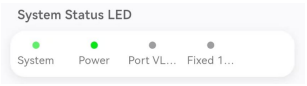
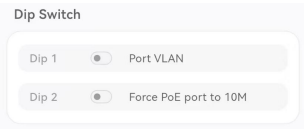
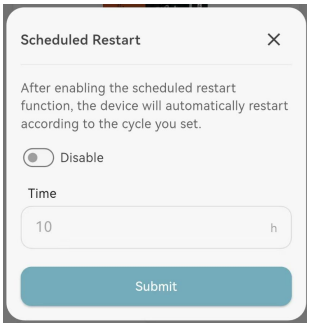






Technical Indexes

Industrial AI Smart Managed Ethernet Switch	
Access Mode	4-Port 10/100/1000BASE-T RJ45 to 1-Port 10/100/1000Base-T Uplink
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	
	Power	
	VLAN	
	10M	
RJ45 Port Status	Link Status	
	Current Rate	
DIP Switch	DIP1 VLAN	
	DIP2 10M	
Scheduled Reset	Support	

Interface port	
Ethernet Port	5-Port 10/100/1000BASE-T Ethernet RJ45 interface Auto-negotiation, auto MDI/MDI-X
	1-4 port 10/100/1000BASE-T
	1- port 10/100/1000BASE-T Uplink
	Cable: Cat 5e or above; Distance: ≤100 meters at 1000M data rate, ≤250 meters at 10M data rate
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	320g
Casing	Aluminum Case
Mounting Options	DIN-Rail
LED Indicators	
SYS	Green LED Blinking: Operating normally
VLAN	Green Solid On: VLAN On
	Green LED Off: Off
10M	Green LED Solid On: Ethernet port link rate is 10M
	Green LED Off: Ethernet port link rate is 10M/100M/1000M
NC	NC
Uplink	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
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-AIMC005GM	Industrial AI Smart Managed 1-Port 10/100/1000BASE-T Uplink to 4-Port 10/100/1000BASE-T Ethernet Switch, 9V to 54V DC power input
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.