

## Features

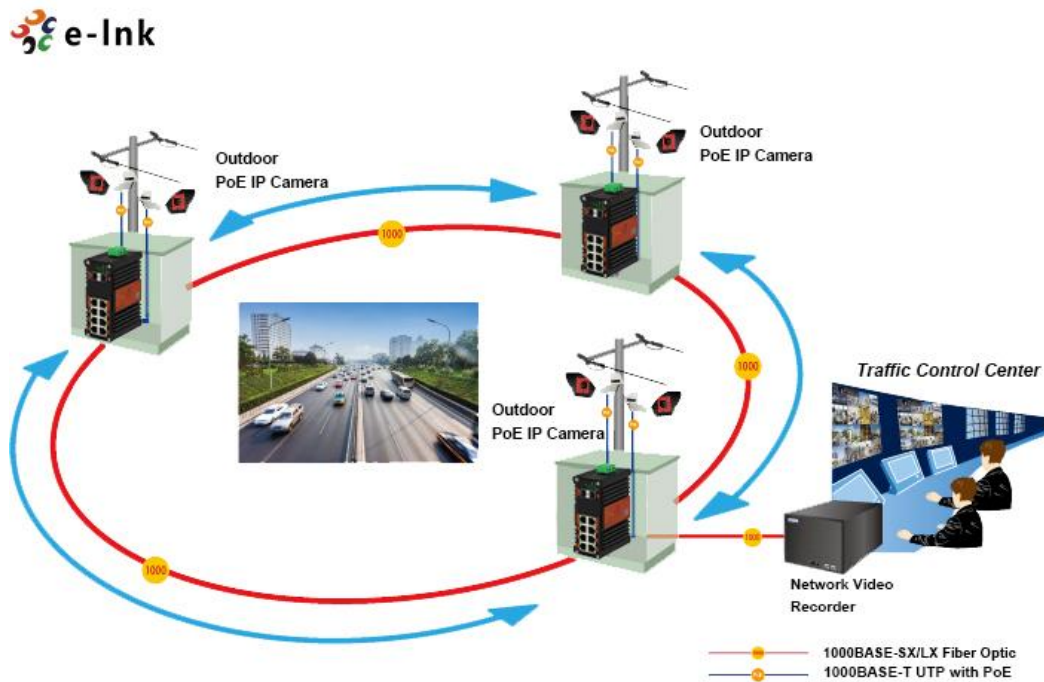
- ▶ Support 8x10/100/1000Base-T + 2x1000Base-X SFP
- ▶ 10/100/1000Mbps RJ45 Port supports Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- ▶ IEEE802.3af/at compliant
- ▶ DIP Switch supports one-key VLAN, one-key Ring Management, PoE Reset and 250m PoE Network
- ▶ Support connecting USB-C port for easy management, without the need to access the RS232 serial port at all
- ▶ 9K Bytes Jumbo Frame
- ▶ IEEE 802.3az Energy Efficient Ethernet



## Overview


LNK-TH208MP series is the L2+ managed 8-port 10/100/1000Base-T 802.3at PoE + 2-port 1000Base-X SFP hardened Ethernet switch. The Switch has 8 TP ports and 2 fiber ports. The TP (RJ45) supports 10/100/1000Base-T(X), Full/Half duplex mode, and auto MDI/MDI-X connection; 1000Base-X SFP port supports 1 or 2 core Single-mode or Multi-mode fiber. With its reliable design and ease of use, the product is a great choice for integrating networks consisting of network devices such as IP cameras and wireless access points between remote locations.

Application



Technical Indexes

|                           |                              |
|---------------------------|------------------------------|
| <b>Ethernet</b>           |                              |
| Standards:                | IEEE802.3 10BASE-T           |
|                           | IEEE802.3u 100BASE-TX/FX     |
|                           | IEEE802.3ab 1000BASE-T       |
|                           | IEEE802.3z 1000BASE-X        |
|                           | IEEE802.3ae 10GBase-R        |
|                           | IEEE802.3p QoS               |
|                           | IEEE802.1d Spanning Tree     |
| Forward & Filtering Rate: | 14,880pps (10Mbps)           |
|                           | 148,800pps (100Mbps)         |
|                           | 1,488,000pps (1000Mbps)      |
|                           | 1,488,000,000pps (10000Mbps) |
| Packet Buffer Memory:     | 12M bits                     |
| Processing Type:          | Store-and-Forward            |
| Backplane bandwidth       | 110Gbps                      |
| Max Packet Length:        | 9K Bytes Jumbo Frame         |
| Address Table Size:       | 8K MAC Addresses             |
| <b>Interface</b>          |                              |
| Connector:                | 8 x RJ45                     |
| RS485:                    | 1 x RS485 (Optional)         |

|                                                                                                                    |                                                  |                  |              |                |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------|--------------|----------------|
| Optical Port:                                                                                                      | 2 x 1000Base-X SFP                               |                  |              |                |
| USB-C:                                                                                                             | 1 x USB-C (for Management)                       |                  |              |                |
| <b>RS485 Serial Interface (Optional)</b>                                                                           |                                                  |                  |              |                |
| Physical interface                                                                                                 | Industrial standard 3-pin screw terminal         |                  |              |                |
| Data type                                                                                                          | 1Ch RS485 Bi-Direction                           |                  |              |                |
| RS-485 signals                                                                                                     | Data +, Data-, GND                               |                  |              |                |
| Serial port line distance (copper)                                                                                 | 1000 meters                                      |                  |              |                |
| Baud rate                                                                                                          | 0 ~ 800kbps                                      |                  |              |                |
| <b>PoE (Power over Ethernet)</b>                                                                                   |                                                  |                  |              |                |
| Standard:                                                                                                          | IEEE 802.3at Power over Ethernet Plus            |                  |              |                |
|                                                                                                                    | IEEE 802.3af Power over Ethernet                 |                  |              |                |
| Port:                                                                                                              | RJ45                                             |                  |              |                |
| Power Pin Assignment                                                                                               | 4/5(+), 7/8(-)                                   |                  |              |                |
| PoE Budget:                                                                                                        | Up to 240-watt PoE budget                        |                  |              |                |
| <b>Environmental</b>                                                                                               |                                                  |                  |              |                |
| Operating Temperature:                                                                                             | -40°C to 80°C (-40°F to 176°F)                   |                  |              |                |
| Storage Temperature:                                                                                               | -40°C to 85°C (-40°F to 185°F)                   |                  |              |                |
| Relative Humidity:                                                                                                 | 5% to 95% non-condensing                         |                  |              |                |
| MTBF                                                                                                               | > 200,000 hrs                                    |                  |              |                |
| <b>Electrical and Mechanical</b>                                                                                   |                                                  |                  |              |                |
| Input Power:                                                                                                       | 48~57VDC, Redundant Power (6-pin Terminal Block) |                  |              |                |
| Power Consumption:                                                                                                 | 8W Max.(PoE in Use<240W)                         |                  |              |                |
| Protection:                                                                                                        |                                                  |                  |              |                |
| Power Input Overload:                                                                                              | Automatic Resettable                             |                  |              |                |
| Reverse Polarity:                                                                                                  | Present                                          |                  |              |                |
| <b>DIP Switch</b>                                                                                                  |                                                  |                  |              |                |
| 4-digit DIP switch function<br> | DIP                                              | Function         | Settings     |                |
|                                                                                                                    | SW 1                                             | VLAN             | ON - Enabled | OFF - Disabled |
|                                                                                                                    | SW 2                                             | Ring Management  | ON - Enabled | OFF - Disabled |
|                                                                                                                    | SW 3 (to be upgraded)                            | 250m PoE Network | ON - Enabled | OFF - Disabled |
|                                                                                                                    | SW 4 (to be upgraded)                            | PoE Reset        | ON - Enabled | OFF - Disabled |
| <b>LED Indicators:</b>                                                                                             |                                                  |                  |              |                |
| PWR:                                                                                                               | Power Status                                     |                  |              |                |
| Ethernet (Per Port):                                                                                               | Link/Activity                                    |                  |              |                |
| PoE:                                                                                                               | PoE Status                                       |                  |              |                |
| Fiber:                                                                                                             | Gigabit SFP Port: F9~F10                         |                  |              |                |

|                                      |                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions (WxDxH):                  | 150 x 118 x 60 mm                                                                                                                                                                                                                                                                                                                   |
| Weight:                              | 1Kg                                                                                                                                                                                                                                                                                                                                 |
| Casing:                              | Aluminum Case                                                                                                                                                                                                                                                                                                                       |
| Mounting Options:                    | DIN-Rail mount                                                                                                                                                                                                                                                                                                                      |
| <b>Software Features</b>             |                                                                                                                                                                                                                                                                                                                                     |
| Redundancy Protocols                 | Support STP/RSTP/MSTP/ERPSv2, Link Aggregation                                                                                                                                                                                                                                                                                      |
| Multicast Support                    | Support IGMP Snooping V1/V2/V3, support GMRP, GVMP, 802.1Q                                                                                                                                                                                                                                                                          |
| VLAN                                 | Support IEEE 802.1Q 4K VLAN, support QinQ, Double VLAN,                                                                                                                                                                                                                                                                             |
| Time Management                      | SNTP                                                                                                                                                                                                                                                                                                                                |
| QoS                                  | Flow-based redirection<br>Flow-based rate limiting<br>Flow-based packet filtering<br>8*Output queues of each port 802.1p/DSCP priority mapping<br>Diff-Serv QoS, Priority Mark/Remark<br>Queue Scheduling Algorithm (SP, WRR, SP+WRR)                                                                                               |
| ACL                                  | Port-based Issuing ACL<br>ACL based on port and VLAN<br>L2 to L4 packet filtering, matching first 80 bytes message.<br>Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc                                                              |
| PoE Management                       | Total power limit of PoE power supply<br>PoE output power allocation<br>PoE output priority configuration<br>PoE working status<br>Scheduling of PoE operation                                                                                                                                                                      |
| Diagnostic Maintenance               | Support port mirroring, Syslog, Ping                                                                                                                                                                                                                                                                                                |
| Management Function                  | Support CLI, WEB, SNMPv1/v2/v3, Telnet server for management, IEEE 802.1X, LLDP, DHCP Server/Client (IPv4/IPv6), Cloud/MQTT                                                                                                                                                                                                         |
| Alarm Management                     | Support 1 way relay alarm output, RMON, TRAP                                                                                                                                                                                                                                                                                        |
| Security                             | Broadcast Storm Protection, HTTPS/SSLv3, AAA & RADIUS, SSH2.0<br>Support DHCP Snooping, Option 82, 802.1X security access,<br>Support user hierarchical management, ACL access control list,<br>Support DDOS, port-based MAC filtering / binding, MAC black holes,<br>IP source protection, Port isolation, ARP message speed limit |
| Advance Layer 2+ Features            | IPv4/IPv6 Management<br>Static Route                                                                                                                                                                                                                                                                                                |
| <b>Regulatory Approvals</b>          |                                                                                                                                                                                                                                                                                                                                     |
| ISO9001, CE, RoHS, FCC               |                                                                                                                                                                                                                                                                                                                                     |
| EN55022:2010+AC: 2011, Class A       |                                                                                                                                                                                                                                                                                                                                     |
| EN 61000-3-2: 2006+A1: 2009+A2: 2009 |                                                                                                                                                                                                                                                                                                                                     |
| EN 61000-3-3: 2013                   |                                                                                                                                                                                                                                                                                                                                     |
| EN55024:2010                         |                                                                                                                                                                                                                                                                                                                                     |

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|-----------------------------|
| 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-TH208MP      | Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 1000X SFP Managed Ethernet Switch                                                                           |
| SFP Options      | <ul style="list-style-type: none"> <li>▶ SFP option. Please select your SFP on our SFP Options Page</li> <li>▶ SFP module is to be purchased separately.</li> </ul> |
| Mounting Options | ▶ Default DIN-Rail Bracket installed                                                                                                                                |
| Power Options    | <ul style="list-style-type: none"> <li>▶ DIN-Rail Power Supply. Open Wire for Terminal Block.</li> <li>▶ Power Supply is to be purchased separately.</li> </ul>     |