Industrial L2+ 16-Port 10/100/1000T Managed Ethernet Switch

Features

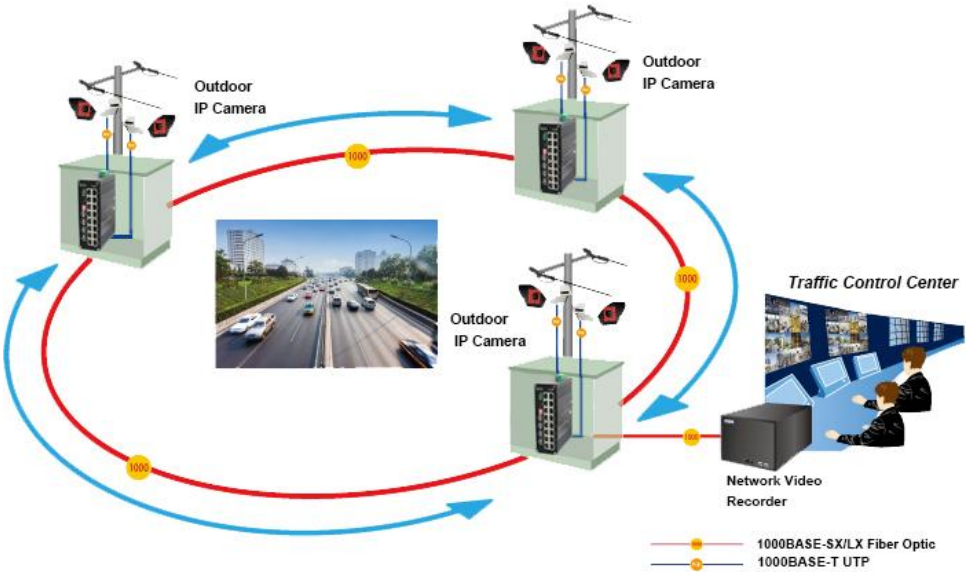
- Support 16x10/100/1000Base-T
- 10/100/1000Mbps RJ45 Port supports Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- Support connecting USB-C port for easy management, without the need to access the RS232 serial port at all
- 10K Bytes Jumbo Frame
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- IP40 Aluminum Case
- Supports DIN-Rail installation
- -40°C to 80°C (-40°F to 176°F) operating temperature



Overview

LNK-DIMC216M series is the L2+ managed 16-port 10/100/1000Base-T hardened Ethernet switch. The switch has 16 TP ports. The TP (RJ45) supports 10/100/1000Base-T(X), Full/Half duplex mode, and auto MDI/MDI-X connection. 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

Ethernet			
Standards:	IEEE802.3 10BASE-T		
	IEEE802.3u 100BASE-TX/FX		
	IEEE802.3ab 1000BASE-T		
	IEEE802.3z 1000BASE-X		
	IEEE802.3p QoS		
	IEEE802.1d Spanning Tree		
Forward & Filtering Rate:	14,880pps (10Mbps)		
	148,800pps (100Mbps)		
	1,488,000pps (1000Mbps)		
Packet Buffer Memory:	12M bits		
Processing Type:	Store-and-Forward		
Backplane bandwidth	32Gbps		
Max Packet Length:	10K Bytes Jumbo Frame		
Address Table Size:	8K MAC Addresses		
Interface			
Connector:	16 x RJ45		
RS485:	1 x RS485 (Optional)		
USB-C:	1 x USB-C (for Management)		
RS485 Serial Interface (Optional)			
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		
Environmental			
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		
Electrical and Mechanical			
Input Power:	12~57VDC, Redundant Power (6-pin Terminal Block)		
Power Consumption:	15W Full Loaded(Non-PoE)		
Protection:			
Power Input Overload:	Automatic Resettable		
Reverse Polarity:	Present		
DIP Switch			
4-digit DIP switch	DIP	Function	Settings

<table>
<tr><td rowspan="4">function

</td><td>SW 1</td><td>Reserved</td><td>ON - Enabled</td><td>OFF - Disabled</td></tr>
<tr><td>SW 2</td><td>Anti-ring</td><td>ON - Enabled</td><td>OFF - Disabled</td></tr>
<tr><td>SW 3</td><td>Reserved</td><td>ON - Reserved</td><td>OFF - Reserved</td></tr>
<tr><td>SW 4</td><td>Reserved</td><td>ON - Reserved</td><td>OFF - Reserved</td></tr>
<tr><td colspan="5">LED Indicators:</td></tr>
<tr><td>PWR:</td><td colspan="4">Power Status</td></tr>
<tr><td>Ethernet (Per Port):</td><td colspan="4">Link/Activity</td></tr>
<tr><td>Dimensions (WxDxH):</td><td colspan="4">155 x 115 x 85 mm</td></tr>
<tr><td>Weight:</td><td colspan="4">1.2KG</td></tr>
<tr><td>Casing:</td><td colspan="4">Aluminum Case</td></tr>
<tr><td>Mounting Options:</td><td colspan="4">DIN-Rail mount</td></tr>
<tr><td colspan="5">Software Features</td></tr>
<tr><td>Redundancy Protocols</td><td colspan="4">Support STP/RSTP/MSTP/ERPSv2, Link Aggregation</td></tr>
<tr><td>Multicast Support</td><td colspan="4">Support IGMP Snooping V1/V2/V3，support GMRP, GVMP,802.1Q</td></tr>
<tr><td>VLAN</td><td colspan="4">Support IEEE 802.1Q 4K VLAN，support QINQ, Double VLAN,</td></tr>
<tr><td>Time Management</td><td colspan="4">SNTP</td></tr>
<tr><td>QOS</td><td colspan="4">Flow-based redirection
Flow-based rate limiting
Flow-based packet filtering
8*Output queues of each port 802.1p/DSCP priority mapping
Diff-Serv QoS, Priority Mark/Remark
Queue Scheduling Algorithm (SP, WRR, SP+WRR)</td></tr>
<tr><td>ACL</td><td colspan="4">Port-based Issuing ACL
ACL based on port and VLAN
L2 to L4 packet filtering, matching first 80 bytes message.
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</td></tr>
<tr><td>Diagnostic Maintenance</td><td colspan="4">Support port mirroring, Syslog, Ping</td></tr>
<tr><td>Management Function</td><td colspan="4">Support CLI, WEB, SNMPv1/v2/v3, Telnet server for management,
EEE, LLDP, DHCP Server/Client (IPv4/IPv6), Cloud/MQTT</td></tr>
<tr><td>Alarm Management</td><td colspan="4">Support 1 way relay alarm output, RMON, TRAP</td></tr>
<tr><td>Security</td><td colspan="4">Broadcast Storm Protection, HTTPS/SSLv3, AAA & RADIUS, SSH2.0
Support DHCP Snooping, Option 82，802.1X security access,
Support user hierarchical management, ACL access control list,
Support DDOS，port-based MAC filtering / binding, MAC black holes,
IP source protection, Port isolation, ARP message speed limit</td></tr>
<tr><td>Advance Layer 2+ Features</td><td colspan="4">IPv4/IPv6 Management
Static Route</td></tr>
<tr><td colspan="5">Regulatory Approvals</td></tr>
<tr><td colspan="5">ISO9001, CE, RoHS, FCC</td></tr>
</table>

EN55022:2010+AC: 2011, Class A
EN 61000-3-2: 2006+A1: 2009+A2: 2009
EN 61000-3-3: 2013
EN55024:2010
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**
ETH-DIMC216M	Industrial L2+ 16-Port 10/100/1000T Managed Ethernet Switch
Mounting Options	► Default DIN-Rail Bracket installed
Power Options	► DIN-Rail Power Supply. Open Wire for Terminal Block.
	► Power Supply is to be purchased separately.