Industrial L2+ 16-Port 10/100/1000T 802.3at PoE Managed Ethernet Switch

Features

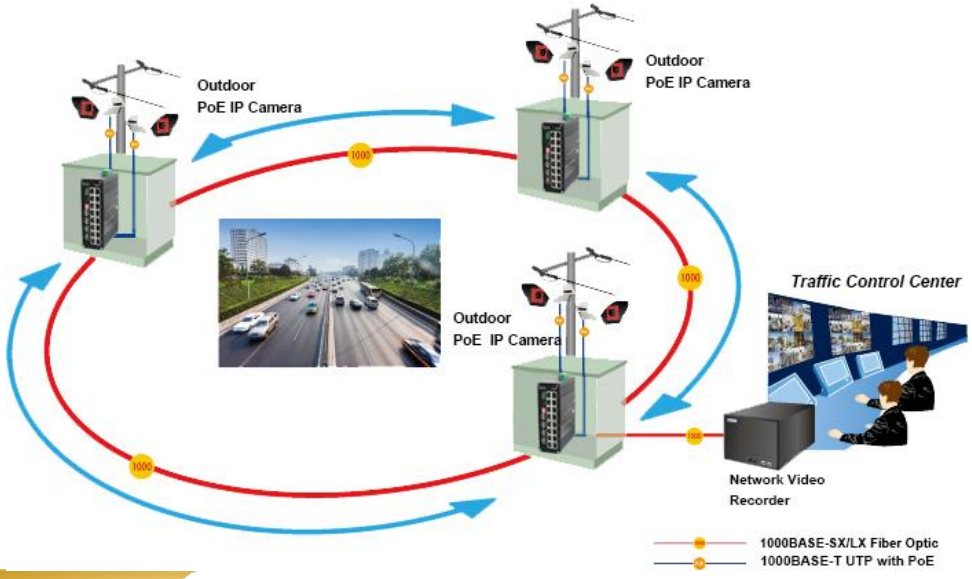
- Support 16x10/100/1000Base-T
- 10/100/1000Mbps RJ45 Port supports Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- IEEE802.3af/at compliant
- DIP Switch supports one-key anti-ring, PoE Reset and 250m PoE Network
- Support connecting USB-C port for easy management, without the need to access the RS232 serial port at all
- 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

ETH-DIMC216MP Series is the L2+ managed 16-port 10/100/1000Base-T 802.3at PoE hardened Ethernet switch. The Switch has 16 TP ports and 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
PoE (Power over Ethernet)	
Standard:	IEEE 802.3at Power over Ethernet Plus
	IEEE 802.3af Power over Ethernet
Port:	RJ45
Power Pin Assignment	1/2/4/5(+), 3/6/7/8(-)
PoE Budget:	Up to 480-watt PoE budget
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:	48~57VDC, Redundant Power (6-pin Terminal Block)
Power Consumption:	15W Max.(PoE in Use<480W)
Protection:	

<table>
<tr><td>Power Input Overload:</td><td colspan="4">Automatic Resettable</td></tr>
<tr><td>Reverse Polarity:</td><td colspan="4">Present</td></tr>
<tr><td colspan="5">DIP Switch</td></tr>
<tr><td rowspan="5">4-digit DIP switch function

</td><td>DIP</td><td>Function</td><td colspan="2">Settings</td></tr>
<tr><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 (to be upgraded)</td><td>250m PoE Network</td><td>ON - Enabled</td><td>OFF - Disabled</td></tr>
<tr><td>SW 4 (to be upgraded)</td><td>PoE Reset</td><td>ON - Enabled</td><td>OFF - Disabled</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>PoE:</td><td colspan="4">PoE Status</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>PoE Management</td><td colspan="4">Total power limit of PoE power supply
PoE output power allocation
PoE output priority configuration
PoE working status
Scheduling of PoE operation</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>
</table>

Alarm Management	Support 1 way relay alarm output, RMON, TRAP
Security	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
Advance Layer 2+ Features	IPv4/IPv6 Management Static Route
Regulatory Approvals	
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	
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-DIMC216MP	Industrial L2+ 16-Port 10/100/1000T 802.3at PoE 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.