



RocketLinx® MP1204-XT

Part Number: 32145-3



KEY FEATURES AND BENEFITS

- Provides eight 10/100/1000 BASE-TX PoE ports and four 100/1000BASE-FX SFP slots
- IEEE 802.3af 15.4W / IEEE 802.3at 30W High Power PoE
- Total PoE power budget: Maximum. 240W PSE power delivered
- LLDP-MED
- Voice VLAN
- Supports TACACS+
- Network redundant LACP, STP, RSTP, MSTP, and quick ring protection(< 20 ms)
- Port-based /tag-based VLAN, IEEE 802.1 ad/QinQ VLAN, Add/remove VLAN
- Multicasting supports IGMP v1/v2/v3, proxy and snooping
- Multicast/broadcast/flooding storm control
- IEEE802.1x access control
- VLAN mirroring
- CLI/Web/SNMP management interfaces
- PoE PSE power management and PD power consumption monitoring
- Dual power input and reverse power protection
- DIN-rail and wall mounting option
- Green Ethernet (EEE, ActiPHY, and PerfectReach)
- Extended temperature range, -40° – 75° C

PoE SWITCH

PRODUCT DESCRIPTION

The RocketLinx MP1204-XT is a Gigabit 12-port industrial PoE switch with eight PoE Plus ports, which are IEEE 802.3af and IEEE 802.3at compliant and also provides four SFP slots. The

MP1204-XT provides an extended operating temperature range, which is ideal for IP camera, access point, and critical PoE devices.



ROCKETLINK SPECIFICATIONS

HARDWARE

Network Interface

Eight 10/100/1000 BASE TX PoE ports and four 100/1000BaseFX SFP slots

Connector Types

8 - RJ45 copper ports
4 - SFP slots

Ingress Protection

IP30

Enclosure

Steel

Installation Method

EN50022 DIN Rail

LED Indicators

Power, Alarm, PoE, Link/Activity, Ring Role, and Ring Status

Alarm Relay

Relay output with current carrying capacity of 0.5A @ 24VDC. Configurable alarm profile to enable Alarm LED, alarm relay and SNMP traps

Serial Console Port

RJ45 to DB9 RS-232 (Tx/D, Rx/D, Signal Ground)

Dimensions

6.06"(H) x 5.04"(D) x 3.03"(W)

154mm(H) x 128mm(D) x 77mm(W)

Switch Technology

Store and forward, L2 wire-speed/non-blocking switching engine

Product Weight

3.15 lbs
1.43kg

ETHERNET SPECIFICATIONS

Number of Ports

12

RJ45

8: 10/100/1000BASE-T PoE Plus
Auto MDI/MDIX, Auto-negotiation (Speed/Duplex mode)

SFP Slots

4: SFP (pluggable) Ports 100/1000BASE
Auto-negotiation (Speed/Duplex Mode)

SFPs (Optional)

Supports 100FX SFP transceivers or 1000BASE-TX SFP transceivers

Cable Types

Cat 3, Cat 4, Cat 5, Cat 6 (UTP or STP)

Link Distances

RJ45: 100 meters
SFP (Depends on the SFP model)

Port Alarm Relay

Yes

Jumbo Frame Size

9K Bytes

Standards

IEEE 802.3u: 10BASE-T Ethernet
IEEE 802.3u: 100BASE-TX Fast Ethernet
IEEE 802.3u: 100BASE-FX Fast Ethernet Fiber
IEEE 802.3z: Gigabit Ethernet Fiber
IEEE 802.3ab: 1000BASE-T Gigabit Ethernet Copper
IEEE 802.1AB: Link Layer Discovery Protocol (LLDP)
IEEE 802.1ad: Double Tagging (Q in Q)
IEEE 802.1D-2004: Rapid Spanning Tree Protocol (RSTP)
IEEE 802.1p: Class of Service
IEEE 802.1Q: VLAN Tagging, GVRP, and Double Tag VLAN
IEEE 802.1s: Multiple Spanning Tree Protocol (MSTP)
IEEE 802.1w: RSTP
IEEE 802.1X: Port Based Network Access Control
IEEE 802.3ad: Port Trunking with Link Aggregation Control Protocol (LACP)
IEEE 802.3x: Flow Control and Back-Pressure
Supports IPv4 and IPv6

Internet Protocol

PoE FEATURES

PoE Modes

802.3af
802.3at (2-event)
802.3at (LLDP-MED)

Number of PoE Plus Injector Ports

8

PSE Type

802.3at Type 2
Alternative A

Standards

IEEE 802.3af PoE
IEEE 802.3at LLDP PoE Plus

LLDP-MED

Extension of IEEE 802.1ab and is defined by ANSI/TIA-1057

Maximum PoE Power/Port

15.4W (IEEE 802.3af)
30W (IEEE 802.3at)

Total Power Budget (Max)

240W

Power Consumption

Without PD load (Max): 14W
PoE with PD load (Max): 265W with 240W PSE
IEEE 802.3af: 2.92A @ 48VDC [134W]
IEEE 802.3 at: 4.89A @ 53VDC [247W]

PoE Control

Enable or disable PoE, set/port PoE mode, and schedule-based PoE functions

Real-Time PoE Status

Yes

PoE Output Pin-Out (RJ45)

Pins 1, 2 - V+

Pins 3, 6 - V-

PoE Scheduling

PoE ports are configurable as On/Off by hourly/daily/weekly basis

MANAGEMENT FEATURES

Configuration and Monitoring Interfaces

Out-Band Management: console port with Command Line Interface (CLI) - Similar to Cisco CLI
In-Band Management: web interface (HTTP/HTTPS) or a telnet/ssh console with CLI

System Upgrade/Backup

Web interface support for firmware upgrade and configuration backup/restore

SNMP

SNMP v1, v2c and v3

SNMP MIB

RFC 1757 RMON 1,2,3,9; RFC 2674 Q-Bridge MIB, RFC-1213 MIB-II; RFC-1493 Bridge MIB; RFC 2233 IF MIB

System Log

Supports server mode syslog

SECURITY FEATURES

Port Security

IP and MAC-based access control
IEEE 802.1X authentication network access control

NAS

Supports system and port configuration

User Privilege

16 configurable user privileges.

Authentication Levels

Console, telnet, ssh, and http

Access Management

Up to 16 entries

Server Authentication

RADIUS and TACACS+

NETWORK REDUNDANCY

Loop Protection

Provides Layer 2 loop prevention through STP, RSTP, and MSTP. Loop protection increases the efficiency of STP, RSTP, and MSTP by preventing ports from moving into a forwarding state that would result in a loop in the network

Multiple Spanning Tree

IEEE 802.1s MSTP

Rapid Spanning Tree Protocol

IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP), Compatible with legacy STP and IEEE 802.1w

Redundant Ring Technology

Supports single and multiple rings; ring coupling; dual-homing; chain

Port Trunk with LACP

Static trunk or dynamic via LACP (Link Aggregation Control Protocol)

NETWORK PERFORMANCE

Access Control List

Permit/Deny Access Control Lists

Back-Pressure

IEEE 802.3x Back-Pressure(Half Duplex)

Class of Service (CoS)

IEEE 802.1p - 8 Priority Queues/Port

DHCP

Client, Server, Relay, Snooping, Option 82

Flow Control Pause Frame

IEEE 802.3x (Full Duplex)

Green Ethernet

EEE, ActiPHY, and PerfectReach

IEEE 802.1ad

Double-Tag for Private VLAN Access

IGMP

IGMP v1/v2/v3, proxy, snooping, and querying

IP Source Guard

Assign authorized IP addresses to specific port, 112 rules permitted per switch

LLDP

IEEE 802.1ab: Link Layer Discovery Protocol

LLDP-MED

Supports Link Layer Discovery Protocol Media Endpoint Discovery

Port-Based Network Access Control/EAP

IEEE 802.1X: Port-Based network access control with EAPoL (Extensible Authentication Protocol over LAN) to permit or deny interface access with remote RADIUS server authentication, TACACS+

Port Configuration

Port link speed, link mode, port status, enable/disable

Port Mirroring

Online traffic monitoring on multiple selected ports

Port Security

Assign authorized MAC addresses to specific port using the dynamic ARP inspection table, which can contain up to 256 entries

Port Trunk/Link Aggregation

IEEE 802.3ad LACP - Port Aggregation and Static Port Trunk
Each trunk member supports up to 12 ports

Maximum of 6 trunk groups including Gigabit Ethernet ports

Private VLAN

Direct client ports in isolated/community VLAN to port in primary VLAN

sFlow

Supported

Time Synchronization

NTP protocol with Daylight Saving Function and Localize Time Sync Function.

Traffic Prioritization (QoS)

8 physical queues per port
Weighted Fair Queuing (WRR) or Strict Priority Scheme, which follows 802.1p QoS tag ID and IPv4 ToS/ Diffserv information to prioritize network traffic
Traffic shaper, which provides port-based shaping
RADIUS-assigned QoS class

VLAN

IEEE 802.1Q VLAN with 4K (Max)
IEEE 802.1ad double tagging (Q in Q)
Maximum four multicast VLANs (MVR)
Port based
MAC-based VLAN
Protocol-based VLAN
IP Subnet-based VLAN
RADIUS assigned

VoIP

Voice VLAN, LLDP-MED

ELECTRICAL SPECIFICATIONS

Device

DC Input Voltage 46-58 VDC

Power Consumption

Max. 14W without PD connected
265W with 240W PSE power delivered

Number of Power Inputs

2

Power Connector Type

6-Pin Screw Terminal Block

Power Input Redundancy

Dual Redundant Inputs

Reverse Polarity Protection

Yes

Digital Output (Relay Output)

1

DC Input Voltage

24VDC

Current Consumption (30VDC)

0.5A Maximum

Multi-Event Relay Feature

Low and High Temperature Port Link

ENVIRONMENTAL SPECIFICATIONS

Air temperature

System On -40° to 75 C
System Off -40° to 85 C

Operating Humidity (non-condensing)

0% to 90%

Mean Time Between Failures

>25 years

EXPORT INFORMATION

Packaged Shipping Weight

4.1 lbs

Package Dimensions

9.5" x 7.5" x 5.2"
240mm x 190mm x 132mm

UPC Code

7-56727-32145-3

ECCN

5A991

Schedule B Number

8517.62.0050

REGULATORY APPROVALS

Emissions

European Standard 61000-6-4
Canadian EMC Requirements - ICES-003

CISPR 22

FCC Part 15 Subpart B
Class A limit

Immunity

European Standard 61000-6-2:
IEC 1000-4-2/EN61000-4-2: ESD
IEC 1000-4-3/EN61000-4-3: RF
IEC 1000-4-4/EN61000-4-4: Fast Transient/ Burst
IEC 1000-4-5/EN61000-4-5: Surge
IEC 1000-4-6/EN61000-4-6: Conducted Disturbance
IEC 1000-4-8/EN61000-4-8: Magnetic Field
IEC 1000-4-9/EN61000-4-9: Pulse Magnetic Field
IEC 1000-4-9/EN61000-4-11: Dips and Voltage Variations

Safety

IEC 60950/EN60950
CSA C22.2 No. 60950/UL60950

Other

European Standard: 2011/65/EU RoHS2
NEMA TS2 Compliant

Vibration

IEC60068-2-6

Shock

IEC 60068-2-27

Free Fall

IEC 60068-2-32

Regulatory Approvals



Warranty Information

Control offers a 30-day satisfaction guarantee and 5-year limited warranty.

Sales Support

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Technical Support

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