

Industrial Grade Rack-mount Managed PoE Switch, Model IPSMGR 3016-2S



- 16 x Gigabit RJ-45 ports + 2 x Gigabit SFP ports (Combo)
- 16 x Gigabit RJ-45 supply IEEE802.3af & IEEE802.3at Standard PoE
- SNMP, WEB, Telnet, SSH, Console, Standard & private MIB
- Support standard IP/ Extend IP / MAC IP / ARP ACL
- 802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption)
- EAPS (ultra high-speed recovery time < 20 ms), RSTP/STP/MSTP
- 250W PoE budget
- L2 MAC Address 8K, Switching capacity 48G
- Power Out alarm
- IP30, metal enclosure with Rack-mounting kits
- 100 to 240VAC input and relay output
- -20 to 60°C wide-range operating temperature

Introduction

The IPSMGR 3016-2SG series are designed for Industrial applications. Thanks to its wide operating temperature it can operate reliably in extremely harsh environments. Designed with 16 Gigabit ports and 2 Gigabit SFP ports (Combo), it provides abundant and flexible connection. It contains surge protection to ensure system stability and relay outputs for greater user flexibility.

Communications

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|----------|---|
| Standard | : IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab |
| LAN | : 10/100/1000Base-T(X), 1000Base-SX/LX/LHX/XD/ZX/EZX |
| Distance | : Ethernet : Up to 100m (4 wire Cat.5e, Cat.6 RJ45 cable suggested for Gigabit port) : SFP : Up to 110 km (depends on SFP) |
| Speed | : Ethernet : 10/100 Mbps Auto-Negotiation : Gigabit Copper : 10/100/1000 Mbps, Auto-Negotiation : Gigabit Fiber : Up to 1000 Mbps |

Interface

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|----------------|---|
| Connectors | : 16 x RJ45 (Ethernet) : 2 x SFP Ports (Combo) : 3-pin removable screw terminal (Power) : 2-pin removable screw terminal (Relay) |
| LED Indicators | : RJ-45 : Link/Activity, SFP : Link/Activity, PoE: On/Off |
| Console | : RS-232 (RJ45) |

Mechanical

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| Enclosure | : IP30, metal shell with Rack-mounting kits |
| Dimensions | : 442 x 44 x 352 mm |
| Mounting | : 1U, 19" Rack mount |

Power

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|--------------|-------------------------------|
| Power Input | : 90 to 264VAC / 88 to 370VDC |
| Consumption | : 15 W @ 110VAC (no PoE load) |
| Fault Output | : Relay Outputs |

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Protection

Surge protection
Power: CM / DM 8/20us 3KA
RJ45 : CM / DM 10/700us 6KV
Reverse Polarity : Present
Overload Current : Present

Environment

Operating Temperature : -20 to 60°C
Storage Temperature : -20 to 70°C
Operating Humidity : 10 to 95% (non-condensing)
Storage Humidity : 10 to 95% (non-condensing)

L2 Features

| | |
|---|---|
| L2 MAC Address : 8K | Unknown unicast |
| Switching capacity : 48G | Spanning Tree : IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, EAPS |
| Jumbo Frame : 9KB | |
| VLAN Group : 4093 (VLAN ID 1~4093) | |
| VLAN Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, GVRP | Security |
| Port Mirroring : Per port, Multi-source port | Port Security : Static, Dynamic |
| IP Multicast : IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave | Authentication 802.1x (Port-Based), RADIUS, TACACS+ |
| Storm Control Broadcast, Multicast, | ACL : Standard IP/ Extend IP / MAC IP / ARP ACL |
| | Advanced Security : IP Source Guard |

Management

| | |
|---|-------------------------------|
| DHCP Relay, Option82 | Security Access : SSH |
| Access : SNMP, WEB, Telnet, RMON, Standard MIB, Private MIB | Software Upgrade : TFTP, HTTP |
| | NTP : NTP client |

QoS

Priority Queue Scheduling : WRR (Weighted Round Robin), SP (Strict Priority)
Class of Service : IEEE 802.1p based CoS, IP TOS, DSCP based CoS

Certification tested for

| | | |
|-----------------------------|---|---|
| Safety | CE-LVD | EN 61000-4-6 |
| EMI | CE FCC EN55022 Class A | EN 61000-4-8 |
| EMS | EN 61000-4-2, EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 | Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 |
| Rate Limiting Rate limit | Egress Rate limit, Ingress | Link Aggregation : IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking |

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| | |
|-----------------------------|------------------------------------|
| Ordering Information | : IPSMGR 3016-2S Hi |
| IPSMGR | : 19" Rack-mount L2 Managed Switch |
| 3016 | : 16 PoE af/at (270W) ports |
| 2S | : 2 * Giga SFP |
| Hi | : Fixed |

Note : SFP to be ordered separately