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24 Port Rackmount L2 Managed Gigabit PoE Switch, IPSMGR 3020-4GC



- 20*Gigabit RJ45 ports + 4*Giga Combo SFP ports
- IEEE802.3af & IEEE802.3at Standard PoE
- 430W PoE budget
- SNMP v1 v2 v3, WEB, Telnet, SSH, Console
- 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
- Dual AC or Single DC Input and Relay output

IPSMGR 3020-4GC series is designed for Industrial applications. It can operate reliably in extremely harsh environments. Designed with 20 Gigabit ports and 4 Gigabit SFP ports (Combo), it provides abundant and flexible connection. It contain Surge protection to ensure system stability and Relay outputs for greater reliability.

Hardware Specifications

RAM : 256Mbit
Flash Memory : 32Mbit
Switching capacity : 48G
Packet Buffer Memory : 4.1Mbit
Throughput / Forwarding Capacity : 35.7Mpps

Standards : 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 100 m (4 wire Cat.5e, Cat.6 cable suggested for Gigabit port)
: SFP : Depends on SFP

Transmission Speed

Gigabit Copper : 10/100/1000 Mbps, Auto Negotiation
Gigabit Fiber : Up to 1000 Mbps

Interface Connectors

20 x RJ45 (Ethernet)
4 x Giga Combo Ports, (SFP)
2 * 5-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

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

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Power

Power Input : Dual 90 to 264V AC
: Single DC 44 to 57V DC.
: Need external Power Supply for the PoE Load
Power Consumption : 20 W @ 110V AC (no PoE load)
PoE Budget : 430W

Relay Outputs : Power 2 Fail

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
Jumbo Frame : 16KB
ACL Table : 512
VLAN Interface : 32
VLAN Qty / Group : 4093 (VLAN ID 1~4093)
VLAN : Mac based VLAN, Protocol based VLAN, IP subnet based VLAN,
Port based, VLAN, GVRP
Port Mirroring : Per port, Multi-source port
IP Multicast : IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
Storm Control : Broadcast, Multicast, Unknown unicast
Spanning Tree : IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, EAPS

Security

Port Security : Static, Dynamic
Authentication : 802.1x (Port-Based), RADIUS, TACACS+
ACL : Standard IP/ Extend IP / MAC IP / ARP ACL
Advanced Security : IP Source Guard

Management

DHCP : Relay, Option82
Access : SNMP v1 v2 v3, WEB, Telnet, RMON, Standard MIB, Private MIB
Security Access : SSH
Software Upgrade : TFTP, HTTP
NTP : NTP client

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QoS

Priority Queue Scheduling : WRR (Weighted Round Robin), SP (Strict Priority)
Class of Service : IEEE 802.1p based CoS, IP TOS, DSCP based CoS
Rate Limiting : Egress Rate limit, Ingress Rate limit
Link Aggregation : IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking
Port Ques : 8

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,	Shock : IEC 60068-2-27
EN 61000-4-3	Freefall : IEC 60068-2-32
EN 61000-4-4	Vibration : IEC 60068-2-6
EN 61000-4-5	

Ordering Information : IPSMGR 3020-4GC A/D Hi

IPSMGR : Base Model for 19" Rack-mount L2 Managed Giga PoE Switch
3020 : 20 * Giga PoE ports (PoE Budget 430W)
4GC : 4 * Giga Combo (SFP) Ports
A/D : A : 90 to 264V AC, D : 44 to 57V DC (AC Input is Dual. DC Input is Single)
Hi : Fixed

Note : SFP to be ordered separately
: DC Input will need external Power Supply for the PoE Loads