DIREKTRONIK

Industrial Managed Gigabit Ethernet Switch with PoE+
20 ports: 16 1000M PoE+ ports and 4 TG SFP+ ports
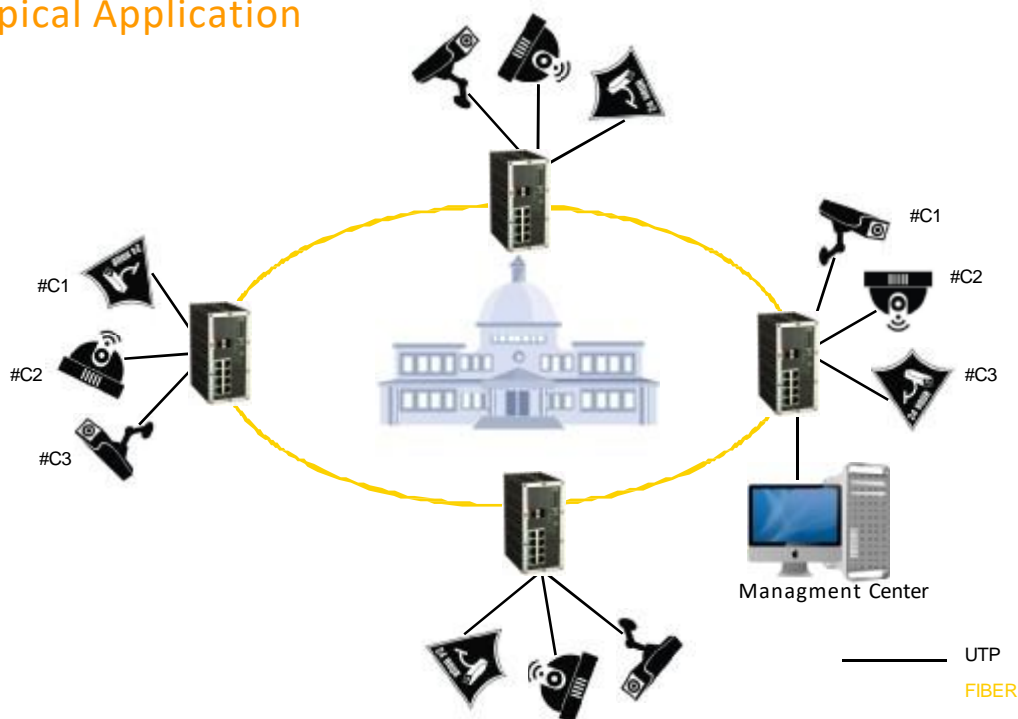
SFP+ 4 | UTP 16 | POE 16

Product Description

A high performance 20 port, industrial, managed gigabit Ethernet switch with sixteen 10/100/1000M PoE ports and four 10G SFP+ ports. The sixteen PoE ports support IEEE802.3af/at standard. The switch supports Ethernet Ring Protection Switching (ERPS) as well as STP/RSTP/MSTP. It also supports Web-based network management, VLAN, QoS, SNMP, IGMP snooping and other network functions. LED indicators provide the connection status when using SFP option. Rugged design with IP40 enclosure and industrial level 3 ESD protection makes it suitable for many applications such as Intelligent Transportation Systems, IP surveillance and industrial networks. The product is available in either DIN rail or wall-mount configurations.

Product Features

16* 10/100/1000Base-T Ethernet ports (PoE)
4* 10G SFP+ ports
EPRS (typical recovery time \< 30ms with 250 connected units)
STP / RSTP / MSTP redundancy protocols and standards
SNMPv1/v2c/v3 & RMON & Port base/802.1Q VLAN network management
IGMP Snooping multicast function
WEB, Telnet, SSH, Console (CLI)
open and close port, binding MAC and port
802.1x network access control
802.1Q protocol, Isolate network flow
Radius Centralized password management
IEEE802.3af/at standard
Overload current protection and reverse polarity protection
IP40 enclosure protection
Unique DIN mount design makes mounting and removal simple
Both PoE and Non-PoE models are available

Typical Application

#C1
#C2
#C3

#C1
#C2
#C3

Managment Center

UTP
FIBER

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Specifications

Standards

IEEE Ethernet Standards	IEEE802.3, IEEE802.3u, IEEE 802.1ab, IEEE802.3z, IEEE 802.3x, IEEE 802.3ad IEEE 802.1d, IEEE 802.1p, IEEE 802.1q IEEE 802.1w, IEEE 802.1s, IEEE 802.1x IEEE 802.1ab

Ports

10/100/1000MBase-T	16
10GBase-X SFP+ (1)	4

Switch Performance

Architecture	Store-and-forward
Bandwidth	120Gbps
Buffer	8Mbps
Mac Address Table	8192

PoE

Standard	IEEE802.3af/at
PSE Type	End-span
Power Pin Assignment	1 / 2 (+), 3 / 6 (-)
Power Output (2)	Each port up to 30W

Management

VLAN	4K VLAN; Port-based VLAN; 802.1Q VLAN protocol;
Port configuration	Port enable/disable; Port rate settings Full-duplex mode; Flow control;
Multicasting	SNMP V1/V2/V3 protocols; IGMP Snooping; IGMP multicast group:1024

Console Port

	RJ45

Mechanical

Enclosure	Ip40
Dimension (W*L*H)	88mm * 142mm * 160mm
Weight	1.25KG

PoE Management

Total Power Consumption Control;
PoE ON/OFF; Port Output Priority;

Security Feature

Enable/disable ports
MAC based port security
Port based network access control
VLAN (802.1Q)
Radius centralized password management
SNMP v1/v2c/v3 encrypted authentication and access security

Protocols

ERPS/STP/RSTP/MSTP, SNTP, 1588 PTP
DHCP Server/Client, MVR, IGMP v1/v2
GMRP, GVRP, SNMP v1/v2c/v3, TFTP,
SMTP,RMON, RARP, HTTP, HTTPS, Telnet,
SSH, Syslog
LLDP, IPv6, NTP Server/Client

Warning & Monitoring

Relay output for fault event alarming
Syslog to record and view events
Event selection support

Relay Output

1A@24VDC NC or NO

Power (3)

POE Power Input	48 ~ 57Vdc
Power Input	12~57VDC
Power Consumption	< 12W (without PoE output)
POE Budget	240W
Overload Current Protection	Yes
Reverse polarity protection	Yes

Environmental

Operating Temperature	-40 ~ +75Degree
Storage Temperature	-40 ~ +85Degree
Operating humidity	5%~95% non-condensing

Protection

Surge	6KV, IEC61000-4-5
ESD	ESD Level 4: IEC61000-4-2
	RS Level 3: IEC61000-4-3
	EFT Level 4: IEC61000-4-4
	CS Level 3: IEC61000-4-6

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Products Size