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IEN-8328P

L2+ Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch, Metal

Description

Realizing the essentiality of 24/7 surveillance for today's society, Volktek develops IEN-8328P Managed industrial PoE+ switch is engineered with hardened components and enclosed in a rugged metal case. The switch can operate in wide temperatures from -10°C to 60°C and playful even in heavy industrial environments providing reliable surveillance.

The switch is compiled with intelligent PoE+ (IEEE 802.3af/at) function on 8 gigabit copper ports and allows to supply up to 30W per port power budget over the single Ethernet cable to satisfy Powered Devices such as Wireless AP, VoIP phones and IP cameras eliminating the need of external power outlets. The 2 multi-rate 100FX/Gigabit fiber slots give the advantages of configuring ring topologies for a safe, reliable and long distance Gigabit connectivity. In addition, the Layer 2 switch offers a full complement of management functions to allow easy-to-use configuration and monitoring. Designed with sufficient beneficial features, IEN-8328P can be considered as a reliable option for harsh outdoor surveillance.


RoHS

Features Highlight

High-Power Budget for PoE Network Devices

IEN-8328P is capable of delivering power up to 30W per port (IEEE 802.3af/at) PoE+ compliant powered devices. Thereby, irrespective of their location, powered devices can be powered without installing additional power outlets or cabling and significantly reduce your CAPEX.
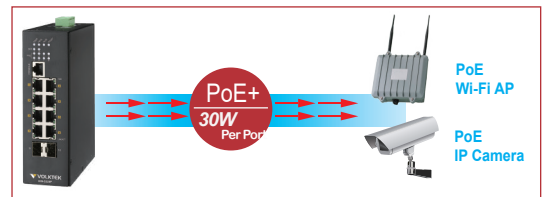

Innovative PoE+ for Powered Devices

IEN-8328P is designed with intelligent PoE+ features to utilize power more efficiently. With user-configurable power budget limit feature, administrators can set power on each port to a desired hourly/weekly schedule and can enable or disable the power output to the powered devices accordingly. To monitor real-time status of PDs, the switch sends alive-checking packets to PDs which reduces management burden and increases system reliability.
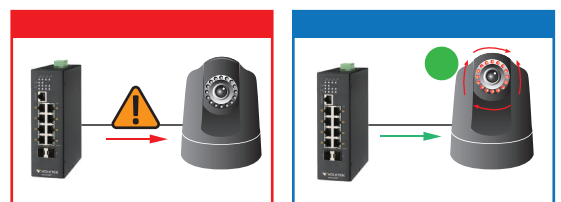
Redundant Power Supply

Considering the power failure impact in surveillance applications, IEN-8328P is developed with standard "6-pin Terminal Block" for redundant power to provide continuous service resulting reliable and consistent network. In addition, the switch is equipped with alarm feature to notify the occurrence of power failure, helps in quick respond and faster trouble shooting.

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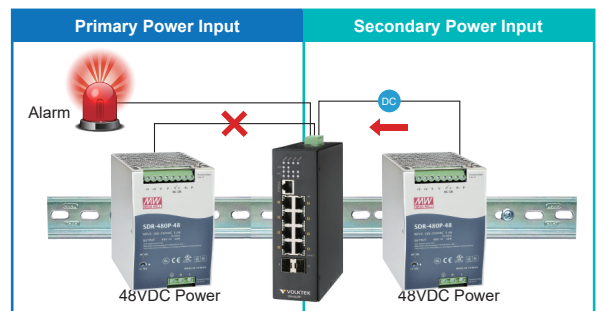
Features Highlight

Efficient Network Monitoring and Proactive Capability

IEN-8328P is configured with SNMP v1/v2c/v3 which gives an enhanced approach for real-time traffic analysis, remote-monitoring and management of individual switches within a surveillance network, this avoids high OPEX. The switch is assimilated with intelligent e-mail alarm system and SNMP Trap functionality to detect system abnormality along with Faster Troubleshooting. In addition to this, the device maintains a system log for the subsequent analysis of abnormal and unwanted flaws.

Redundant Ring for Faster Network Recovery

Even few seconds of missed communications due to link failures, especially in IP surveillance systems, can cause inconvenience and recovering it becomes very critical. The IEN-8328P is designed with various ring protocols like STP, RSTP where the network failure is recovered in time scale of milliseconds. This ensures non-stop transmission of real-time video and data.

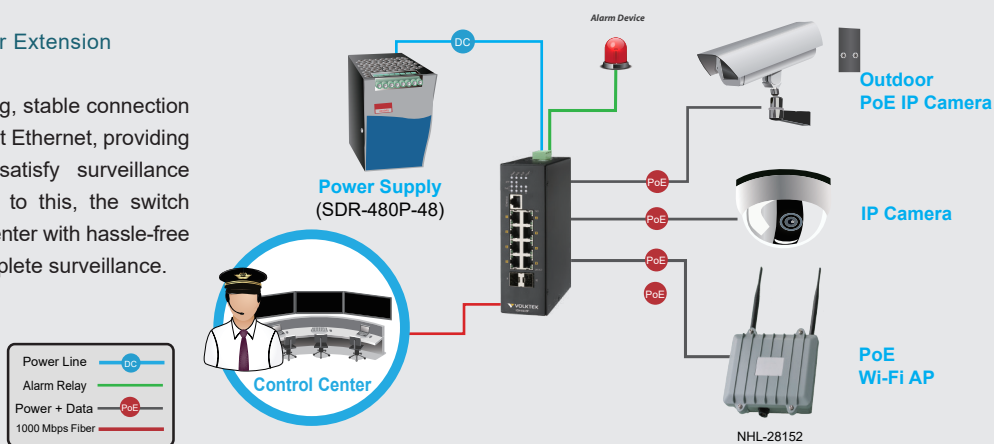### Favorable Design for Rack-mount Installation

To stand firmly inside the outdoor cabinet in the harsh temperature due to global warming, IEN-8328P comes up with innovative and flexible rack mount design satisfying the EIA standard. Saving the time, OPEX and investment, the switch can easily install inside the existing rack-mount cabinet, providing a burden less installation and maintenance for different application fields like Telco and surveillance.
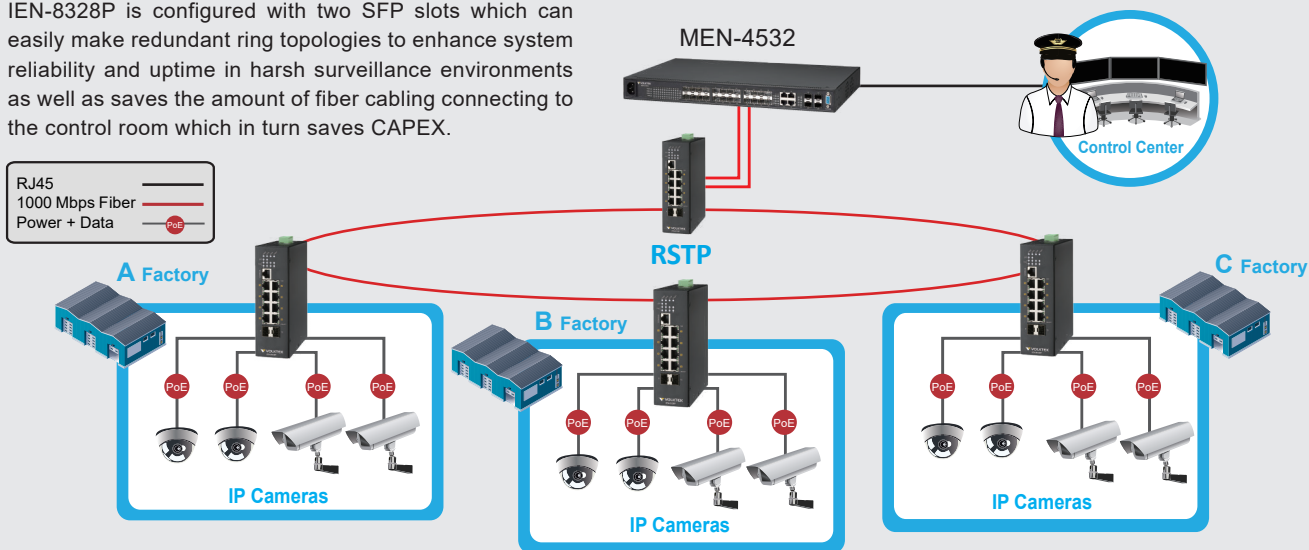
Applications

Scalable Ethernet plus Easy Fiber Extension to Control Room

The IEN-8328P guarantees a strong, stable connection of Ethernet, Fast Ethernet or Gigabit Ethernet, providing flexible deployment options to satisfy surveillance networking requirements. Addition to this, the switch can be easily extended to control center with hassle-free fiber to enable a full-proof and complete surveillance.

Alarm Device

Power Supply
(SDR-480P-48)

Outdoor
PoE IP Camera

IP Camera

PoE
Wi-Fi AP

NHL-28152

Control Center

Power Line	DC
Alarm Relay	
Power + Data	PoE
1000 Mbps Fiber	

Network Redundancy

IEN-8328P is configured with two SFP slots which can easily make redundant ring topologies to enhance system reliability and uptime in harsh surveillance environments as well as saves the amount of fiber cabling connecting to the control room which in turn saves CAPEX.

MEN-4532

Control Center

RJ45	
1000 Mbps Fiber	
Power + Data	PoE

RSTP

A Factory

B Factory

C Factory

IP Cameras

IP Cameras

IP Cameras

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Specifications

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX/FX
IEEE 802.3ab	1000BASE-T
IEEE 802.3x	Flow Control
IEEE 802.3ad	Link Aggregation
IEEE 802.1ab	LLDP
IEEE 802.1D	STP
IEEE 802.1w	RSTP
IEEE 802.1p	CoS Prioritization
IEEE 802.1Q	VLAN Tagging
IEEE 802.1X	Port Authentication
IEEE 802.3af	Power over Ethernet
IEEE 802.3at	Power over Ethernet Plus

Interface	
Ports	8 x 10/100/1000Base-T (PoE RJ45)
	2 x 100FX/Gigabit SFP Slots
	1 x RJ45 Console Port
DIP Switch	Primary/Redundant Power Voltage Drop Alarm setting
LED Panel	PWR, RPS, ALM, POST, PoE, 1000, LNK/ACT

Features	
Performance	Jumbo frame Size: 10KB
	MAC Table Entries: 8K
	Active VLAN: 256
	Switch Fabric: 20Gbps
	L2 Forwarding Rate: 14.8Mpps
Management	CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics
Reliability	STP/RSTP, Dual Homing, LACP, Static Trunk, Code Redundancy
VLAN	IEEE 802.1Q, Port-based VLAN, MAC-based VLAN, QinQ
Traffic Control	IGMP Snooping/Throttling, QoS, Flow Control, Rate Limit, Storm Control, Traffic Monitor, Port Isolation, Loop Detection
Security	ACL, SSH, Port-based 802.1x, Port Security, MAC Search, Static MAC, DHCP Snooping, DHCP Sever Screening, ARP Inspection, BPDU Guard/Filter, Root Guard, Managed Host
PoE/PoE+	Scheduling, PD Alive Check, PoE Power On/OFF, Feeding Power Budget Control

Power	
Input Voltage	Primary inputs：48~57VDC
	Redundant inputs：48~57VDC
Power Consumption	10W
	PoE Power Budget：240W
Alarm Relay	One relay output, 1 A @ 24V DC

Mechanical and Environment	
Housing	Metal Case (IP30 protection)
Mounting	DIN-Rail
Operating Temperature	-10°C~60°C
Storage Temperature	-40°C~70°C
Operating Humidity	5 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	840g
Dimension (WxHxD)	50x160x120 mm (1.97x6.3x4.72 inch)

Certifications	
EMI	Processing
EMS	Processing
Shock	IEC 60068-2-27 (Processing)
Freefall	IEC 60068-2-32 (Processing)
Vibration	IEC 60068-2-6 (Processing)

Ordering Information	
IEN-8328P	L2+ Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch, -10°C ~ 60°C

Optional Accessories	
Power Supply	SDR-480-48: 480W, 48V DC, Single Output Industrial DIN Rail with PFC Function, -25°C ~ 70°C
GBM-104	1000BASE-SX 1.25G, Multi-mode SFP, 500m
GBM-104-10	1000BASE-LX 1.25G, Single mode SFP, 10Km
GBM-123TS	1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10Km
GBM-123RS	1000BASE-LX, Bi-Di SFP TX:1550/RX:1310 Single Mode, 10Km
FPM-107	100BASE-FX Multi-mode SFP, 2Km
FPM-107-30	100BASE-FX Single mode SFP, 30Km
GBM-132TS	100BASE-FX, Bi-Di SFP TX:1310/RX:1550, Single mode, 20Km
GBM-132RS	100BASE-FX, Bi-Di SFP TX:1550/RX:1310, Single mode, 20Km

Note :
* The SFP communication distance upon the request.
* Industrial SFP with wide operating temperature from -40°C~85°C is available upon request.
* Specifications subject to change without notice.

Dimension