VOLKTEK

IEN-8648PA-24V

L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch

Description

Volktek's IEN-8648PA-24V Managed Industrial switch is equipped with 8 port 10/100/1000Base-T and 4 Gigabit SFP slots that are PoE+ compliant. Engineered with hardened components and enclosed in a rugged case, the switch can operate in wide temperatures from -40°C to 75°C and excellent tolerance capability to high vibration and shock. As an Industrial switch, the IEN-8648PA-24V suits your heavy industrial environments and yet contains all the standard features of other switches.

PoE+ function on 8 ports 10/100/1000 Base-T complies with IEEE 802.3at standards and allows to supply up to 30W per port for network attached devices such as WLAN Access Points. VoIP phones and IP surveillance cameras that can be powered by Ethernet connectivity. The IEN-8648PA-24V eliminates the need for installing additional power outlets or adapters, thus network power planning is simplified and overall installation and maintenance costs are reduced. In addition, the Layer 2 switch offers a full complement of management functions to allow easy-to-use configuration and monitoring.



















Features Highlight

Robust Switch Performance

IEN-8648PA-24V is built with IP30 aluminum case protection, surge and ESD protection to deliver robust performance and withstand extreme conditions in Industrial environments. The SFP ports support 1000Mbps for high bandwidth transmissions and the SFP DDM feature enables service providers to monitor SFP parameters. In case of any abnormal hardware condition, the switch automatically sends warnings through email and relay output with real-time alarm messages. This assists the system administrators to immediately react to emergency events and diagnose the faults more efficiently for smoother network operations.



High-Power Budget for PoE Network Devices

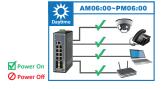
To reduce the required time and cost of installing additional electrical sources, the IEN-8648PA-24V implements PoE+ technology. The switch supplies power over the same cable that is used to carry network traffic and delivers a high power budget of 240W to suit various power requirements. Using SNMP and Web interface, the PoE+ functions on each port can be enabled and disabled to save power and energy.



Intelligent PoE+ for powered devices

The IEN-8648PA-24V is designed with intelligent PoE+ features to utilize power more efficiently. To monitor real-time status of PDs, the switch sends alive-checking packets to PDs. This reduces management burden and increases system reliability. Using power scheduling mechanism of the switch, administrators can set power on each port to a desired hourly/weekly schedule and can enable or disable the power output to these devices accordingly.

PoE Scheduling





PoE Alive-Checking





Redundant Power system

Mission-critical industrial applications need to operate without any interruptions because even a minimum network downtime can hugely impact the overall output. Providing continuous power as well as data to such applications is now made easy with IEN-8648PA-24V's redundant power system. The switch is designed with standard industrial terminal block for redundant power. In case the primary power supply fails, the secondary power will enable the switch to provide continuous





Features Highlight

Efficient network monitoring and proactive capability

In a network, the issues that impact network performance can be quickly resolved with the IEN-8648PA-24V's most accepted and enhanced traffic management, monitoring and analysis protocols such as SNMP and RMON. SNMP allows end users to centrally manage different levels in a network and RMON gives the capability to monitor the network performance. Service providers can ensure a reliable network by identifying connectivity and performance issues and isolating the problem remotely on individual switches. This avoids high OPEX and provides administrators the control they need to manage a healthy and efficient network.

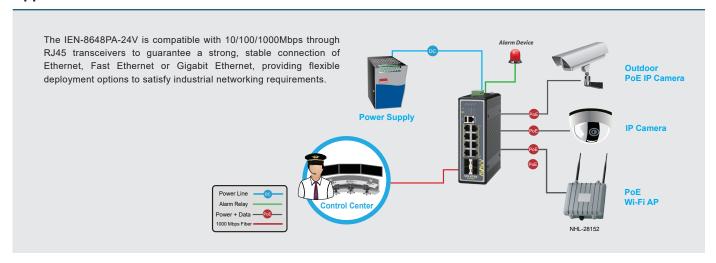
Bandwidth management to prevent unpredictable network status

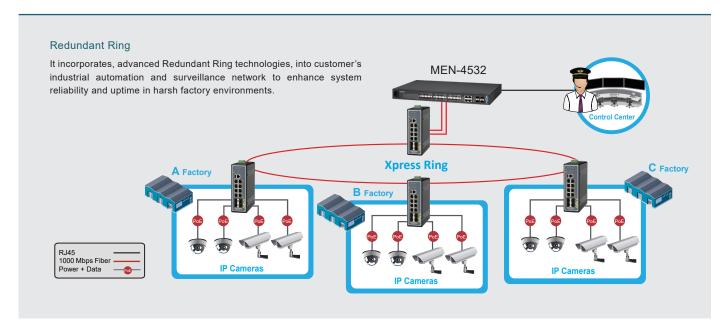
Industrial surveillance applications need different levels of services delivered to them reliably without any transmission delays and interruptions. The IEN-8648PA-24V has comprehensive QoS mechanisms which assign priority to applications and sends only specific dedicated traffic to them. In addition, bandwidth management function of the switch allocates high bandwidths to mission-critical communications and reduce the bandwidth to applications that are less critical. With full control of limiting the bandwidth, the administrators can prevent unpredictable errors and utilize the bandwidth more effectively.

Redundant Ring and Fast Recovery for Surveillance System

Even few seconds of missed communications due to link failures, especially in IP surveillance systems, can cause inconvenience and recovering it becomes very critical. Featuring with Xpress Ring, IEN-8648PA-24V can rapidly react to such link failures and recovers it within less than 10ms, a much faster fail-over time to support nonstop transmissions. And to handle the heavy traffic load of video and data, the switch implements.

Applications





VOLKTEK

Specifications

Standards		
IEEE 802.3	10BASE-T	
IEEE 802.3u	100BASE-TX	
IEEE 802.3ab	1000BASE-T	
IEEE 802.3z	1000BASE-SX/LX	
IEEE 802.3	Nway Auto-negotiation	
IEEE 802.3x	Flow Control	
IEEE 802.3ad	Link Aggregation	
IEEE 802.3af	Power over Ethernet	
IEEE 802.3at	Power over Ethernet Plus	
IEEE 802.3az	Energy Efficient Ethernet (EEE)	
IEEE 802.1AB	LLDP	
IEEE 802.1ad	QinQ	
IEEE 802.1D	STP	
IEEE 802.1w	RSTP	
IEEE 802.1s	MSTP	
IEEE 802.1p	Class of Service	
IEEE 802.1Q	VLAN Tagging	
IEEE 802.1X	Port Authentication	
IEEE 1588v2	PTP	
Interface		
Ports	8 x 10/100/1000BASE-T (PoE RJ45)	
	4 x GbE SFP Slots	
	1 x RJ45 Console Port	
	1 x USB Port	
DIP Switch	Primary/Redundant Power Voltage Drop Alarm setting	
LED Panel	PWR, RPS, ALM, POST, SFP, PoE, 1000, LNK/ACT	
Features		
Features		
Features	Jumbo frame Size: 10KBytes	
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Performance	· · · · · · · · · · · · · · · · · · ·	
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	MAC Table Entries: 16K Active VLAN: 4K	
	MAC Table Entries: 16K Active VLAN: 4K Switch Fabric: 24Gbps	
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Power	
Input Voltage	Primary inputs: 24~57VDC
	Redundant inputs: 24~57VC
Connection	Teminal Block
	System: 18W
Power Consumption	PoE Power Budget: 124W @ 24V DC
	240W @ 48V DC
Alarm Relay	One relay output, 1A @ 24VDC
Mechanical and Environment	
Housing	Aluminum (IP30 Protection)
Mounting	DIN-Rail
Operating Temperature	-40°C~75°C (-40°F~167°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Operating Humidity	5 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	955 g (2.1 lb)
Dimension (WxHxD)	50 x 160 x 120 mm (1.97 x 6.3 x 4.72 in)
Certifications	
ЕМІ	FCC Part 15 Subpart B Class A
	EN 55022: class A
	EN 55011: 2009 class A
	EN 61000-6-4
	EN 55024
	EN 61000-6-2
	EN 61000-4-2 (ESD)
	EN 61000-4-3 (RS)
EMS	EN 61000-4-4 (Burst)
	EN 61000-4-5 (Surge)
	EN 61000-4-6 (CS)
	EN 61000-4-8 (PFMF)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Ordering Information	
	L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE
IEN-8648PA-24V	SFP Switch
IEN-8608PA-24V	L2+ Managed 8 x 10/100/1000 PoE+ Switch
Optional Accessories	
Power Supply	SDR-480P-48: 480W DIN-Rail 48V DC Industrial
	Power Supply, -25°C~70°C (-13°F~158°F)
GBM-104	1000BASE-SX 1.25G, Multi-mode SFP, 500m
ODM: IVT	1000BASE-LX, Bi-Di SFP TX:1310/RX:1550
GBM-123TS	Single Mode, 10Km, 0°C~70°C (32°F~158°F)
GBM-123RS	1000BASE-LX, Bi-Di SFP TX:1550/RX:1310
	Single Mode, 10Km, 0°C~70°C (32°F~158°F)

Note:

- * The SFP communication distance upon the request. * Industrial SFP with wide operating temperature from -40°C~85°C (-40°F~185°F) is available upon request.
- * Specifications subject to change without notice.



Dimension

