

HNS-8615P

Lite Managed Hardened PoE Plus Ethernet Switch

4-Port IEEE 802.3at PoE Plus + 1-port 10/100/1000Base-T + 1-slot Gigabit SFP

Description

The HNS-8615P is a Lite Managed Hardened PoE+ Ethernet Switch perfectly suited in harsh environments and an ideal solution to deploy in surveillance systems. The switch is designed to meet the requirements of both power and data transmission over single Ethernet cable to PoE appliances and devices without the need for power outlets, eliminating additional cost of electrical cabling and circuits.

The switch's rugged case and hardened components withstand high degree of vibration, shock and wide operating temperatures from -20°C to 60°C. Switch features 5 10/100/1000Base-T ports and 1 Gigabit SFP slot to satisfy new and evolving network demands in longer distances via its fiber port. With 4 IEEE 802.3at compliant ports, each of them allows to supply up to 30W in controllable ways to satisfy the growing demand of high power consuming network devices such as WLAN AP, VoIP phones and IP surveillance cameras, and other powered devices in long distances up to 100 meters with Cat.5e cables or above.

In addition, the switch also facilitates built-in basic software features such as QoS, VLAN tagging, RMON and other network function & management to deliver a rock solid, adjustable network to down port networks, to ensure impressive uptime even in the most challenging network conditions.



RoHS **CE** **FC**



Features Highlight

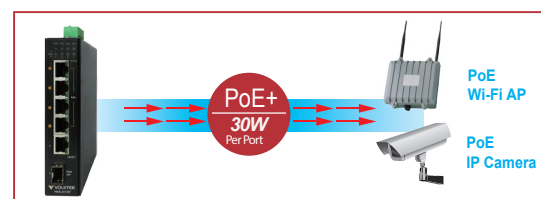
Robust Switch Performance

With a hardened metal case, surge and ESD protection, the HNS-8615P provides a high level of immunity against electromagnetic interference and heavy electrical surges, thus facilitating easy deployment in demanding environments. In addition, the HNS-8615P offers high performance switch architecture with five 10/100/1000Base-T ports and one Gigabit Ethernet SFP slots to meet the requirements of high-bandwidth access in wide operating temperatures.



High-Power Budget for PoE Network Devices

To fulfill the growing demand of high-bandwidth, high-power PoE for network applications and eliminating the cost of electrical cabling and circuits, the HNS-8615P is designed under IEEE 802.3at standard PoE. With 120W PoE power budget capability for whole system, the switch allows simple "plug and play" PoE for various types of high power consuming PoE devices. This makes the HNS-8615P a very convenient solution for applications far away from power outlets satisfying PoE extension applications in much longer distances.



Intelligent PoE+ for Powered Devices

The HNS-8615P 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. If a PD fails to respond, the switch's PD live check feature detects the failure and reactivates the PD. 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. Thus consumption of excess power can be limited and energy can be saved.

PoE Scheduling



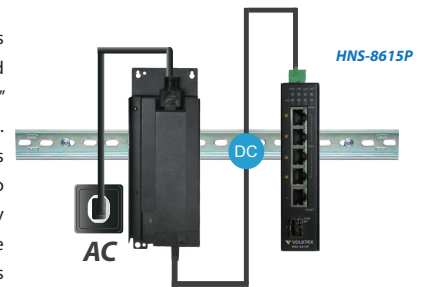
PoE Alive-Checking



Features Highlight

DIN Rail to Power Adapter (AC to DC) & Terminal Block

The HNS-8615P is ideal solution to prevent the failure of single power circuit, in which provides you options to facilitate the 802.3at High Power PoE usage. Either "DIN-Rail Power Adapter" to convert AC to DC for board operation in an easily and firmly installation with hardened connection to the switch unit OR "Terminal Block" which supports primary (PWR) 48VDC and standby (RPS) 48VDC can be used to powering PoE network. Categorized by its compact design, DIN-Rail Power Adapter can easily fit in smaller infrastructures and is extremely simple in installation. Saving your time and space, this adapter can be easily mounted next to switch unit in surveillance applications that have little space available. The second optional power supply through "Terminal Block" provides a low-cost, simple solution to the problem of an inadvertent failure of the internal power-supply, which can result in the shutdown of switching device, the PoE devices attached to its ports, or an entire network.



Simplified Installation w/ Compact Size

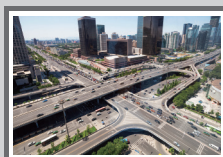
The HNS-8615P provides varied choice of deployment locations even in small space, harsh environments, quick and easy installation way by its compact size. Every HNS-8615P is equipped with auto MDI/MDI-X on all ports for simple connection to other switches and hubs. When a compliant device is attached, the power supplied will automatically detect and classify to fit the device. With diagnostic LEDs panel, the HNS-8615P allows you to know switch status and simplify troubleshooting.

Efficient network monitoring and proactive capability

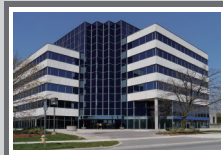
In a network, the issues that impact network performance can be quickly resolved with the HNS-8615P's most accepted and enhanced traffic management, monitoring and analysis protocols. SNMP allows end users to centrally manage different levels in a network, QoS, IGMP gives the capability to monitor the network performance. HNS-8615P can help to 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.

Surveillance Applications

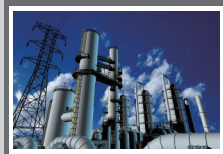
The HNS-8615P combines high-power PoE+, robust performance for surveillance systems in harsh environments. With its compact size, highly reliable and secure features ensure continuous operations in some special requirements for transportation, factory and outdoor places where high vibration degree, shock and wide range temperatures are present.



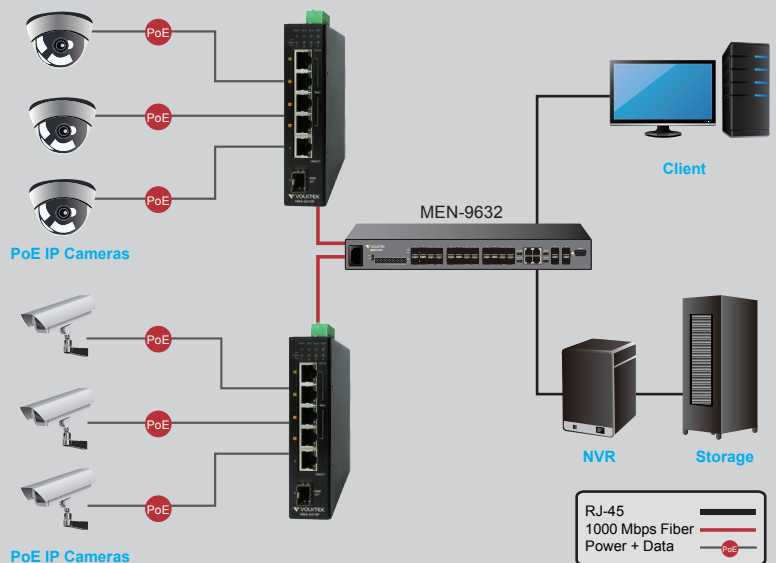
Traffic Surveillance



Building Surveillance

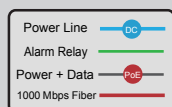


Factory Surveillance



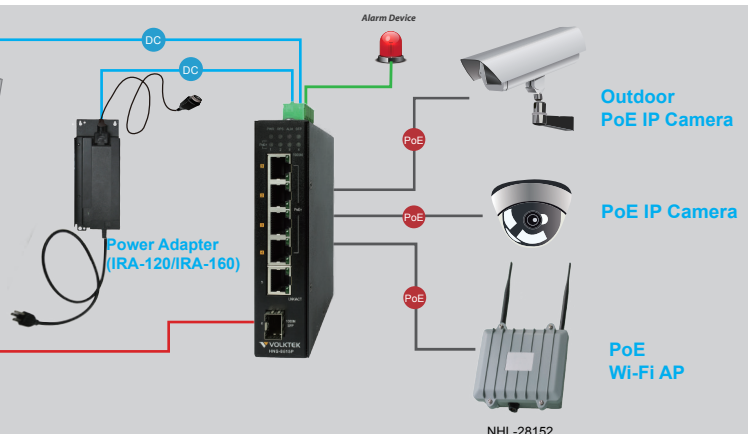
Applications

The HNS-8615P is compatible with 10/100/ 1000 Mbps through RJ45 transceivers to guarantee a strong, stable of Ethernet, Fast Ethernet or Gigabit Ethernet, providing flexible deployment options to satisfy surveillance network-ing requirements.



Power Supply (SDR-480P-48)

Power Adapter (IRA-120/IRA-160)



Specifications

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX
IEEE 802.3ab	1000Base-T
IEEE 802.3z	1000Base-SX/LX
IEEE 802.3x	Flow Control
IEEE 802.1p	Class of Service
IEEE 802.1q	VLAN Tagging
IEEE 802.1ab	LLDP
IEEE 802.3af	PoE
IEEE 802.3at	PoE plus
Network Management	
Configuration	Command Line Interface, Telnet, Web GUI, SNMP v1/v1c, Management VLAN, System log, Firmware Upgradable, Configuration Upload/Download
VLAN	IEEE 802.1Q, MAC-based VLAN
Traffic control	IGMP snooping, QoS, Rate Limitation, Storm Control, Port Isolation
Diagnostics	LED status, SNMP trap, E-mail alarm, SFP DDMI, Port Mirroring, SNTIP, RMON, Port Statistic, Syslog
Power	
Input Voltage	Primary: 48V (48~57V DC) Redundant: 48V (48~57V DC)
Connection	4-pin DC-Jack (Primary Power Input) 6-pin Terminal block (Primary/Redundant Power Input)
Power Input Polarity Protection	Present
Power Voltage Drop Alarm	Primary/Redundant Power Input
Alarm Relay	One relay output with current carrying capacity of 1 A @ 24V DC
Power Consumption	10W (System) 130W (With 4 PoE plus fully loaded)
Surge Protection	6KV (Line-to-Ground)
ESD Protection	8KV/15KV (Contact/Air)
PoE+ Functions	
PoE+ Functions	Up to 4 IEEE 802.3at powered devices Supports PoE Power up to 30W for each PoE port Auto detect powered device (PD) Remote Power Feeding up to 100m
Interface	
Ports	1 x Gigabit SFP 1 x 10/100/1000Base-T (RJ45) 4 x 10/100/1000Base-T (PSE)

*Industrial SFP with wide operating temperature from -40°C~85°C is available upon request

*Specifications subject to change without notice.

Mechanical and Environment

Housing	Metal Case (IP30 protection)
Mounting Kit	DIN-Rail, Wall Mount (Optional)
Operating Temperature	-20°C~60°C
Storage Temperature	-40°C~85°C
Operating Humidity	10 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	395g
Dimension (WxHxD)	31x136x109.5 mm (1.22x5.36x4.31 inch)
DIP Switch	Primary/Redundant Power Voltage Drop Alarm setting
LED Panel	PWR, RPS, ALM, SFP, PoE ports, 1000, LNK/ACT

Standards and Certifications

FCC	Part 15 Subpart B	Class A
CE	EMI	EN55011 EN55022 class A EN 61000-6-4
	EMS	EN 55024 EN 61000-6-2 IEC/EN 61000-4-2 (ESD): Level 4 IEC/EN 61000-4-3 (RS): Level 3 IEC/EN 61000-4-4 (Burst): Level 3 IEC/EN 61000-4-5 (Surge): Level 3 IEC/EN 61000-4-6 (CS): Level 3

Approval & Test

Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Ordering Information

HNS-8615P	Lite Managed 4-Port IEEE 802.3af/at PoE + 1x10/100/1000 +1xSFP Gigabit Ethernet Switch, with optional 120W/160W power adapter
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Optional Accessories

Power Supply	SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C
Power Adapter	IRA-120: 120W, 52V, Industrial Grade Power Adapter (-30°C~60°C for 110V AC input / -30°C~70°C for 220V AC input)
	IRA-160: 160W, 52V, Industrial Grade Power Adapter (-30°C~60°C for 110V AC input / -30°C~70°C for 220V AC input)
DIN-Rail Holder	DR-120 (for IRA-120) / DR-160 (for IRA-160)
MEN-9632	Managed 24-slot 100FX/GbE SFP, 4G Combo Aggregation Switch
GBM-104	1000Base-SX 1.25G, Multi-mode SFP, 500m
GBM-104-2	1000Base-SX 1.25G, Multi-mode, 3.3V, 1310nm, 2Km
GBM-104-10	1000Base-LX 1.25G, Single mode SFP, 10Km
GBM-123	1000Base-LX Bi-di Single Mode SFP Module, 10Km

Dimension

