

# HNS-8615P

Managed 4 x 10/100/1000 PoE+ &  
1 x 10/100/1000 RJ45 & 1 x FX/GbE SFP Switch

## Description

2024~2025 Volktek Product Catalog

The HNS-8615P is a 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 -10°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

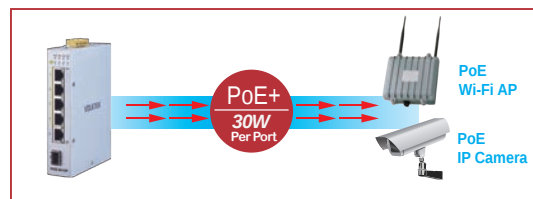
### Robust Switch Performance

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.



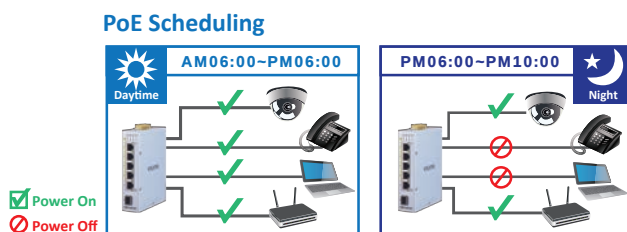
### High-Power Budget for PoE Network Devices

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.

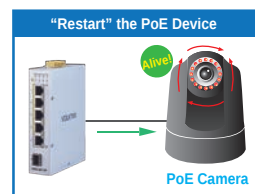


### Intelligent PoE+ for Powered Devices

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.



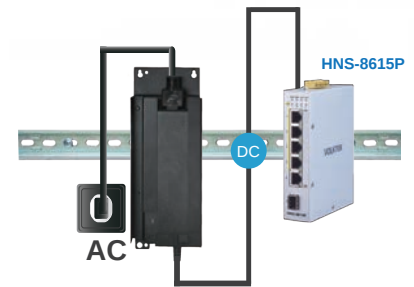
### PoE Alive-Checking



## 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

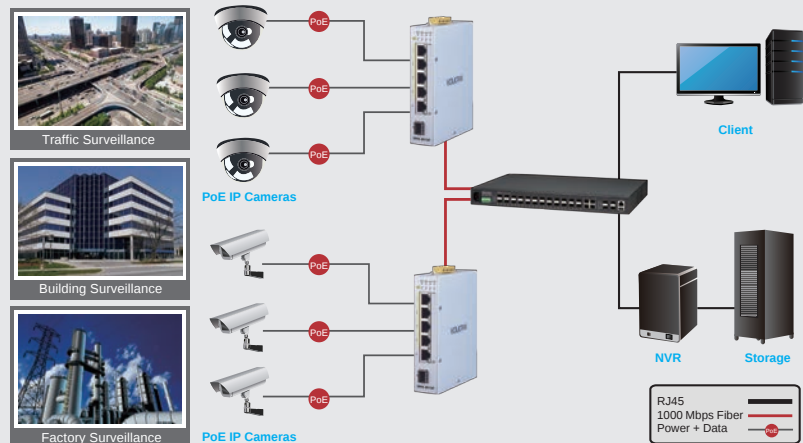
The HNS-8615P provides varied choice of deployment locations even in small space, harsh environments, quick and easy installation way by its compact size. Every HNS-8615P is equipped with auto MDI/MDI-X on all ports for simple connection to other switches and hubs. When a compliant device is attached, 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.

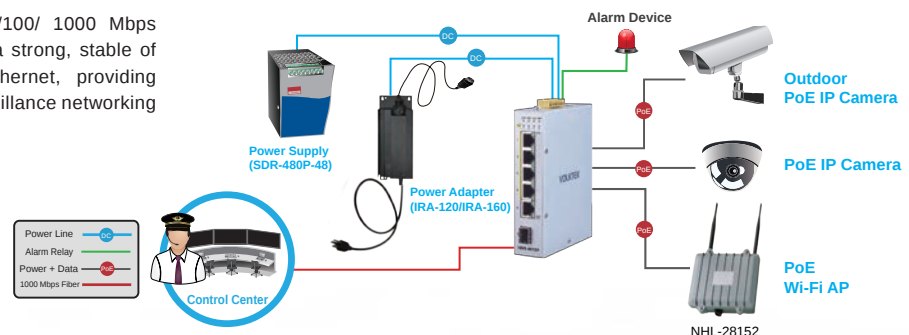
## Surveillance Applications

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.



## 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 networking requirements.



## Specifications

| Standards       |                                                                                                                                                                                                                                                                         |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IEEE 802.3      | 10BASE-T                                                                                                                                                                                                                                                                |
| IEEE 802.3u     | 100BASE-TX/FX                                                                                                                                                                                                                                                           |
| IEEE 802.3ab    | 1000BASE-T                                                                                                                                                                                                                                                              |
| IEEE 802.3u     | 100BASE-FX                                                                                                                                                                                                                                                              |
| 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 802.1D     | STP                                                                                                                                                                                                                                                                     |
| IEEE 802.1w     | RSTP                                                                                                                                                                                                                                                                    |
| IEEE 802.1p     | Class of Service                                                                                                                                                                                                                                                        |
| IEEE 802.1Q     | VLAN Tagging                                                                                                                                                                                                                                                            |
| IEEE 802.1X     | Port Authentication                                                                                                                                                                                                                                                     |
| Interface       |                                                                                                                                                                                                                                                                         |
| Ports           | 4 x 10/100/1000BASE-T (PoE RJ45)                                                                                                                                                                                                                                        |
|                 | 1 x 10/100/1000BASE-T (RJ45)                                                                                                                                                                                                                                            |
|                 | 1 x FX/GbE SFP Slot                                                                                                                                                                                                                                                     |
| DIP Switch      | Power voltage drop alarm setting (PWR & RPS)                                                                                                                                                                                                                            |
| LED Panel       | PWR, RPS, ALM, SFP, PoE, 1000, LNK/ACT                                                                                                                                                                                                                                  |
| Features        |                                                                                                                                                                                                                                                                         |
| Performance     | Jumbo frame Size: 10KB                                                                                                                                                                                                                                                  |
|                 | MAC Table Entries: 8K                                                                                                                                                                                                                                                   |
|                 | Active VLAN: 256                                                                                                                                                                                                                                                        |
| Management      | Switch Fabric: 12Gbps                                                                                                                                                                                                                                                   |
|                 | 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, ModbusTCP |
|                 | STP/RSTP, ERPS v1/v2, Dual Homing, LACP, Static Trunk                                                                                                                                                                                                                   |
| VLAN            | IEEE 802.1Q, Port-based VLAN, MAC-based VLAN                                                                                                                                                                                                                            |
| 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 Functions   | Scheduling, PD Alive Check, PoE Power On/OFF, Feeding Power Budget Control                                                                                                                                                                                              |

## Dimension

| Power                      |                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------|
| Input Voltage              | Primary inputs: 48~57VDC                                                                                         |
|                            | Redundant inputs: 48~57VDC                                                                                       |
| Connection                 | Terminal Block, Mini-DIN                                                                                         |
| Power Consumption          | 10W                                                                                                              |
| Alarm Relay                | PoE Power Budget: 120W                                                                                           |
|                            | One relay output, 1 A @ 24V DC                                                                                   |
| Mechanical and Environment |                                                                                                                  |
| Housing                    | Metal (IP40 protection)                                                                                          |
| Mounting                   | DIN-Rail                                                                                                         |
| Operating Temperature      | -10°C~60°C (14°F~140°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                     | 515 g (1.1 lb)                                                                                                   |
| Dimension (WxHxD)          | 31 x 136.3 x 105 mm (1.22 x 5.37 x 4.13 in)                                                                      |
| Certifications             |                                                                                                                  |
| EMI                        | FCC Part 15 Subpart B Class A                                                                                    |
|                            | EN 55011 class A                                                                                                 |
|                            | EN 55032 class A                                                                                                 |
|                            | EN 61000-6-4                                                                                                     |
| EMS                        | ICES-003, ISSUE 7                                                                                                |
|                            | EN 61000-6-2                                                                                                     |
|                            | EN 55035                                                                                                         |
|                            | EN 61000-4-2 (ESD)                                                                                               |
|                            | EN 61000-4-3 (RS)                                                                                                |
|                            | EN 61000-4-4 (Burst)                                                                                             |
|                            | EN 61000-4-5 (Surge)                                                                                             |
|                            | EN 61000-4-6 (CS)                                                                                                |
| Shock                      | EN 61000-4-8 (PFMF)                                                                                              |
|                            | IEC 60068-2-27                                                                                                   |
|                            | IEC 60068-2-32                                                                                                   |
| Freefall                   | IEC 60068-2-27                                                                                                   |
| Vibration                  | IEC 60068-2-6                                                                                                    |
| Ordering Information       |                                                                                                                  |
| HNS-8615P                  | Managed 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 & 1 x FX/GbE SFP Industrial Switch                           |
| HNS-8605P                  | Managed 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 Industrial Switch                                            |
| Optional Accessories       |                                                                                                                  |
| Power Supply               | IRA-160: 160W, 52V, Industrial Grade Power Adapter (-30°C~60°C for 110V AC input / -30°C~70°C for 220V AC input) |
| 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                                                         |

## 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.

