

H60-DC series

IP67/IK10 L2 PR0 Gigabit PoE Switches w/ 12~56VDC Input





The H60 series of IP67/IK10 Pro L2 Managed PoE Switches are designed with 6KV Ethernet port surge protection, 4KV surge protection in DC Input, and hardengraded standard to operate between -40° C and 65° C for harsh weather conditions. They enable outdoor connections of PoE PDs to the network such as outdoor IP cameras, wireless APs, and other outdoor industrial applications.

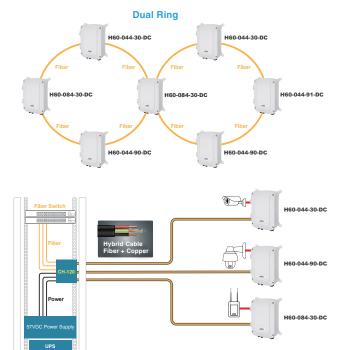
The H60 series provides multi-port Gigabit PoE (10M/100M/1G) delivering data and power to PoE PDs over a single network cable and additional SFP transceiver slots for flexible uplink. The H60 series has three sub models classified as power source equipment (PSE) and provide PoE budget up to 30W or 90W per port.

Besides general functions of L2 plus & basic L3 switch such as QoS, security, spanning tree, cable length measurement, and SNMP v1/v2c/v3, a dedicated web graphic user interface of IP surveillance is easy to configure and manage ONVIF cameras. It automatically generates camera topology maps, cable diagnostic, and PoE management.

Features

- Layer 2 Switch
 - 802.1d (STP), 802.1w (RSTP), 802.1s (MSTP)
 - Loop protection
 - SNMP v1/v2c/v3
 - QoS
 - VLAN
 - Ethernet cable length measurement
 - DHCP Server
- Network Topology System
 - Automatic discovery for ONVIF camera
 - · Generates camera topology map automatically
 - Cable diagnostic & reboot camera remotely
 - PoE management
 - Topology view / Floor view / Google map
 - Monitor / Configure / Manage ONVIF camera thru web
- Flexible SFP transceiver ports for uplink
- IP67 standard
- IK10 impact rated cast aluminum housing
- Operating temperature between -40°C and 65°C
- Compliant IEEE802.3at 30W per port (H60-044-30-DC, H60-084-30-DC)
- 90W bt/PoH PoE per port (H60-044-90-DC)
- 90W bt PoE per port (H60-044-91-DC)
- Supports 10/100/1000Mbps data rates
- 6KV PoE surge protection
- IEEE 802.3az Energy Efficient Ethernet standard for green
 power

Applications

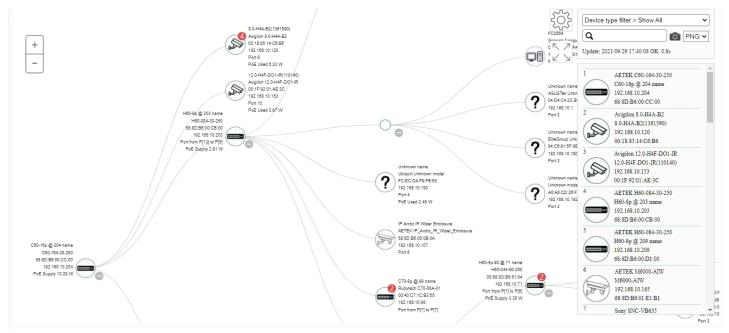


Device List

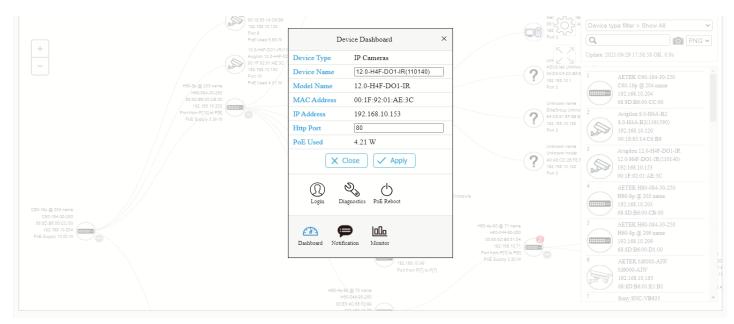
how 10 🗸 entries						Search:
Status 🔶	Device Type	Model Name	Device Name	*	MAC	UP Address
Online	PoESW	H60-084-30-250	H60-8p @ 203 name		68:8D:B6:00:CB:00	192.168.10.203
Online	PoESW	H60-084-30-250	H60-8p @ 209 name		68:8D:B6:00:D1:00	192.168.10.209
Online	IPMX	M6000-AIW	M6000-AIW		68:8D:B6:01:E1:B1	192.168.10.165
Online	IP Camera	SNC-VB635	Sony		D8:D4:3C:DD:F5:C7	192.168.10.122
Online	IP Camera	WV-S1131	Panasonic_WV-S1131		BC:C3:42:71:79:D0	192.168.10.104
Online	IPSG	SD-504	SD-504		68:8D:B6:00:00:01	192.168.10.108
Online	PC	General Computer	FC2564		00:50:56:2D:FA:AC	192.168.10.201
😑 Online	Others	Unknown model	Unknown name	Unknown name		192.168.10.1
😑 Online	Others	Unknown model	Unknown name	Unknown name		192.168.10.180
😑 Online	PC	General Computer	MIS-TEMP-NB4		A0:A8:CD:26:FE:FD	192.168.10.192
howing 1 to 10 of 29 entries						Previous 1 2 3 Nex

Edit

Topology View



Device Dashboard



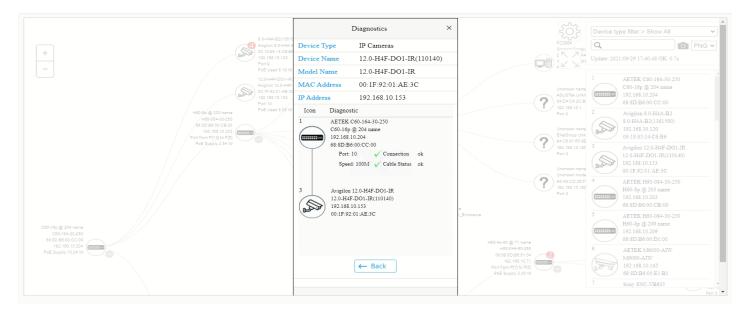
Floor Map View



Google Map View

Search Box		pout Cha	Division Ave	Comes +	Device type filter > Show All	~
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		Device Type	PoE Switches	o 18 ⁵ ∠ ↓		
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	Wallabout Bay	Model Name	H60-084-30-250	er post Grill On L 猶太日	192.168.10.204 68:8D:B6:00:CC:00	×
John St		MAC Address	68:8D:B6:00:CB:00		2 Avigilon 8.0-H4A-B2	- 1
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307 Daniel S S Navy Yard Fer	rry offices	API Acccount	admin203	* Anne Henress.	12.0-H4F-DO1-IR(110140) 192.168.10.153	×
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Brooklyn Tow Pound Facility	Dock 72	X	Close Apply	Bedfor 3 Citco P for Nursi	4 AETEK H60-084-30-250 H60-8p @ 203 name 192.168.10.203 68:8D:B6:00:CB:00	×
ty Park Brooklyn Navy Yard O	nt spin the Market St	Upgrade Po	€ Config	lāvai metery dšcape	5 AETEK H60-084-30-250 H60-Sp @ 209 name 192.168.10.209 68:8D:B6:00:D1:00	×
地圖 衛星檢視 conda skate Fark ##松淵 Flushing Ave Flushing Ave		Dashboard Notif	cation	Shell P tiliaba Tast P Conde	6 AETEK M6000-AIW M6000-AIW 192.168.10.165	×
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Cable Diagnostics



PoE Features

- IEEE802.3at (PoE+ 30W),bt / PoH 90W
- Max. allowed 30W / 90W per port
- Port status table

PoE Port Configuration					
Local Port	PD Class	Power Used	Current Used	Priority	Port Status
1	-	0.00 [W]	0 [mA]	high	No PD detected
2	-	0.00 [W]	0 [mA]	high	No PD detected
3	-	0.00 [W]	0 [mA]	high	No PD detected
4	class0	2.65 [W]	50 [mA]	high	on
5	-	0.00 [W]	0 [mA]	high	No PD detected
6	-	0.00 [W]	0 [mA]	high	No PD detected
7	-	0.00 [W]	0 [mA]	high	No PD detected
8	-	0.00 [W]	0 [mA]	high	No PD detected
Total		2.00 [W]			
Apply Refresh					

Specifications - Software

PoE Management	
Port Configuration	Supports per port PoE configuration function
PoE Scheduling	Supports per port PoE scheduling to turn on/off the PoE devices (PDs).
Auto-checking	Check the link status of PDs. Reboot PDs if there is no responses
Power Delay	The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs.
IP Surveillance Graphic	al User Interface Specifications
Automatic Discovery	Discover IP cameras complying ONVIF automatically
Topology View	Generate Topology maps to manage IP cameras
Floor view	It's easy to drag and drop PoE devices and help you to build smart workforces
Map view	Enhance efficiency to drag and drop devices and monitor surroundings on google map
Traffic Monitoring	Comprehensive chart to show traffic status
PoE Management	Reboot IP camera, Scheduling PoE on/off, alive checking, Power delay as PoE switch boots up, PoE configuration
Layer 2 Switching Spe	cifications
Spanning Tree Protocol	MAC Bridges Standard Spanning Tree (STP) 802.1d, Rapid Spanning Tree (RSTP) 802.1w, Multiple Spanning Tree (MSTP) 802.1s
IP/Mac Port Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad, Static aggregation.
VLAN	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs), Port-based VLAN, 802.1Q tag-based VLAN
IGMP v1/v2 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters.
Layer 3 Switching Spe	cifications
DHCP Server	Assign IP to DHCP clients
Security	
Port Security	Locks MAC addresses to ports, and limits the number of learned MAC address
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
Loop Protection	To prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations.
QoS	
Classification	Port based, 802.1p VLAN priority based
Bandwidth Control	Ingress policer, Egress shaping and rate control, Per port
Management software	
Port Mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.
IEEE 802.1ab (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network, Support LLDP-MED extensions
Web GUI Interface	Built-in switch configuration utility for browser-based device configuration
SNMP	SNMP version1, 2c, 3
Flow Control	The IEEE 802.3x standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats
Firmware Upgrade	Web browser upgrade HTTP and TFTP
NTP	Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
Other Management	System, HTTP, DHCP Client, Cable Diagnostics, Syslog, IPV4/IPV6 Management, SSH, Telnet

Specifications

	H60-044-30-DC	H60-044-90-DC	H60-044-91-DC	H60-084-30-DC
Networking Specifications				
Total Gigabit Ports	8	8	8	12
Gigabit PoE Ports (10M/100M/1G)	4 x 30W PoE	4 x 90W bt / PoH	4 x 90W bt	8 x 30W PoE
SFP Slots (100M/1G)	2	2	2	4
Gigabit Ports (RJ45)	2	2	2	-
Forwarding Capacity	11.904Mpps	11.904Mpps	11.904Mpps	17.856Mpps
Mac Table	8 k	8 k	8 k	8k
Jumbo Frames	9,216 Bytes	9,216 Bytes	9,216 Bytes	9,216 Bytes
Switching Capacity	16 Gbps	16 Gbps	16 Gbps	24 Gbps
Power Specifications				
Input Voltage	12VDC ~ 56VDC	12VDC ~ 56VDC	12VDC ~ 56VDC	12VDC ~ 56VDC
Output Voltage	12VDC ~ 56VDC	12VDC ~ 56VDC	12VDC ~ 56VDC	12VDC ~ 56VDC
Output Voltage Range /per PoE Port	54 VDC PoE IEEE 802.3af (Max. 15.4W) output PoE+ IEEE802.3at (Max. 30W) output	54 VDC PoE IEEE 802.3af (Max. 15.4W) output PoE+ IEEE802.3at (Max. 30W) output bt / PoH PoE (Max. 90W) output	54 VDC PoE IEEE 802.3af (Max. 15.4W) output PoE+ IEEE802.3at (Max. 30W) output bt PoE (Max. 90W) output	54 VDC PoE IEEE 802.3af (Max. 15.4W) output PoE+ IEEE802.3at (Max. 30W) output
PoE Power Budget	12VDC:90W 24VDC:120W 48VDC:120W	12VDC:90W 24VDC:150W 48VDC:240W	12VDC:90W 24VDC:150W 48VDC:240W	12VDC:90W 24VDC:150W 48VDC:240W
Surge Protection /each PoE Port	6KV	6KV	6KV	6KV
Surge Protection for DC Power	4KV	4KV	4KV	4KV
Mechanical Specifications				
Dimensions (L x W x H)	245.8 x 315.4 x 118mm	245.8 x 315.4 x 118mm	245.8 x 315.4 x 118mm	245.8 x 315.4 x 118mm
Weight	4.2KG	4.3KG	4.3KG	4.37KG
Connectors	M16 x 4, M25 x 2	M16 x 4, M25 x 2	M16 x 4, M25 x 2	M16 x 4, M25 x 2
DI/DO	1/1	1/1	1/1	1/1
Console	RJ45	RJ45	RJ45	RJ45
Reset Button	Yes	Yes	Yes	Yes
Environmental Specifications	5			
Weather Rating	IP67	IP67	IP67	IP67
Vandal Proof	IK10	IK10	IK10	IK10
Operating Temperature	-40°C~ 65°C (-40°F~ 149°F)	-40°C~ 65°C (-40°F~ 149°F)	-40°C~ 65°C (-40°F~ 149°F)	-40°C~ 65°C (-40°F~ 149°F
Storage Temperature	-40° C~ 85° C (-40° F~ 185° F)	-40° C~ 85° C (-40° F~ 185° F)	-40° C~ 85° C (-40° F~ 185° F)	-40° C~ 85° C (-40° F~ 185° F
Operating Humidity	5% ~ 95% non-condensing	5% ~ 95% non-condensing	5% ~ 95% non-condensing	5% ~ 95% non-condensing
Certifications				
EMC	CE,FCC,VCCI, C-Tick Class A	CE,FCC,VCCI, C-Tick Class A	CE,FCC,VCCI, C-Tick Class A	CE,FCC,VCCI, C-Tick Class A
Surge	EN61000-4-5	EN61000-4-5	EN61000-4-5	EN61000-4-5

Ordering Information



Optional Accessories



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