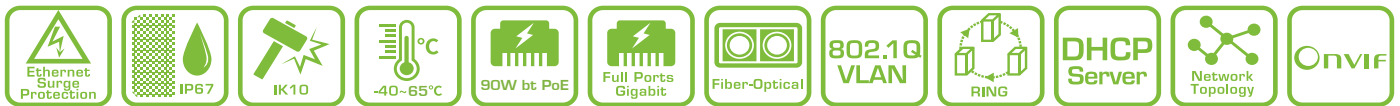


H60-022-90-DC-B

Outdoor IP67/IK10 L2 PRO Gigabit 90W PoE Switch
w/ 12~56V DC Input for Avigilon & Hanwha & Axis
PTZ/IR PTZ/Multisensor Cameras



AETEK H60-022-90-DC-B not only delivers video streaming and 90W PoE budget for **Avigilon, Axis, and Hanwha PTZ and multi-sensor cameras** but also allow these cameras mounted into front panel of H60-022-90-DC-B directly. Customized mounting holes on front casing are precisely positioned, absolutely fit the Avigilon, Axis, and Hanwha pendant wall mount arm kit.

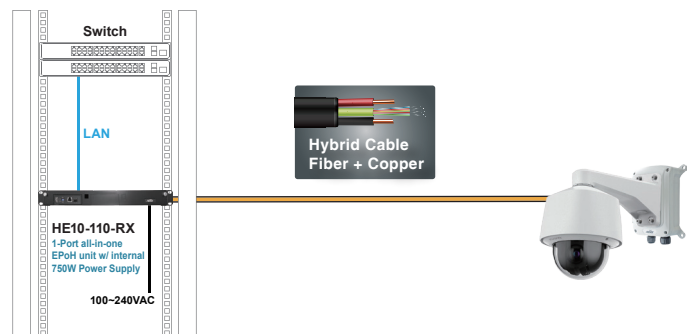
The H60-022-90-DC-B provides 2-port Gigabit PoE (10M/100M/1G) delivering data and power to PoE PDs over a single network cable and additional SFP transceiver slots for flexible uplink. The H60-022-90-DC-B provide PoE budget up to 90W per port.

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

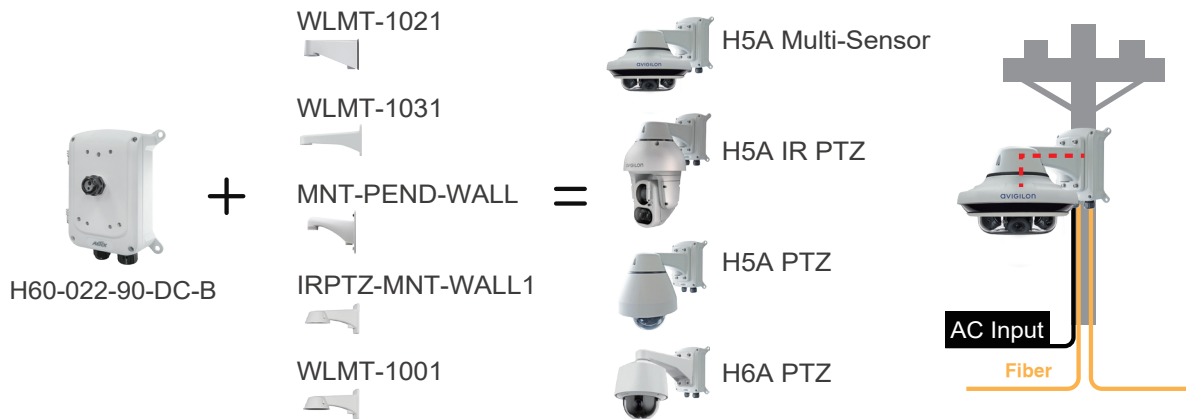
- Compatible with Avigilon wall mount holes for direct PTZ and multi-sensor camera installation
- Compatible with Axis wall mount accessories via AT-401 adapter set (includes Recessed Adapter and Small Adapter) for PTZ and multi-sensor cameras
- Compatible with Hanwha wall mount accessories via AT-402 adapter for PTZ and multi-sensor cameras
- 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 90W bt PoE per port
- Supports 10/100/1000Mbps data rates
- 6KV PoE surge protection
- IEEE 802.3az Energy Efficient Ethernet standard for green power

Applications



PSU Output Voltage	Cable Gauge (AWG)	Maximum PoE Power over Cable Distance by Gauge		
		80 W (802.3af/at/bt PoE)	50 W (802.3af/at PoE)	17 W (802.3af PoE)
57V DC	12	700m / 2,296ft	1,000m / 3,280ft	2,400m / 7,874ft
	16	300m / 984ft	400m / 1,312ft	850m / 2,788ft

AVIGILON™



AXIS® COMMUNICATIONS



Hanwha Vision



Device List

Show 10 entries

Search:

Status	Device Type	Model Name	Device Name	MAC	IP 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	04:D4:C4:2C:B5:EC	192.168.10.1
Online	Others	Unknown model	Unknown name	94:C6:91:5F:9E:EA	192.168.10.180
Online	PC	General Computer	MIS-TEMP-NB4	A0:A8:CD:26:FE:FD	192.168.10.192

Showing 1 to 10 of 29 entries

Edit

Previous

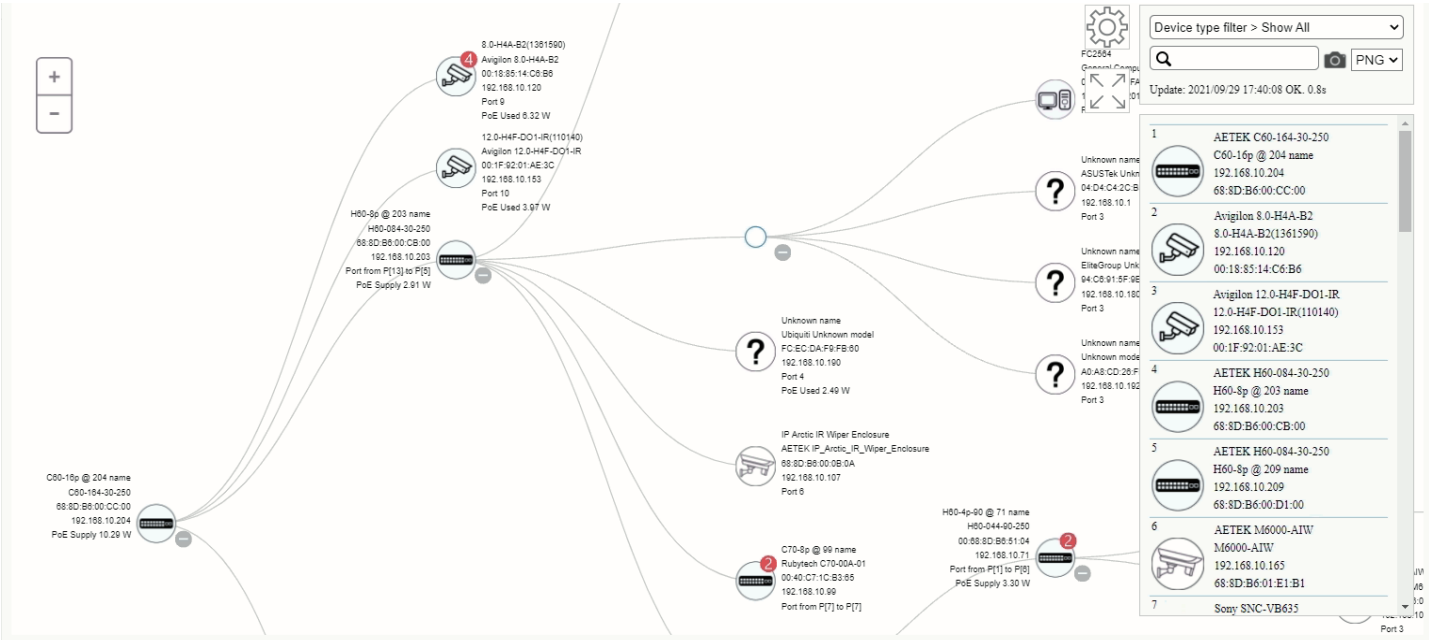
1

2

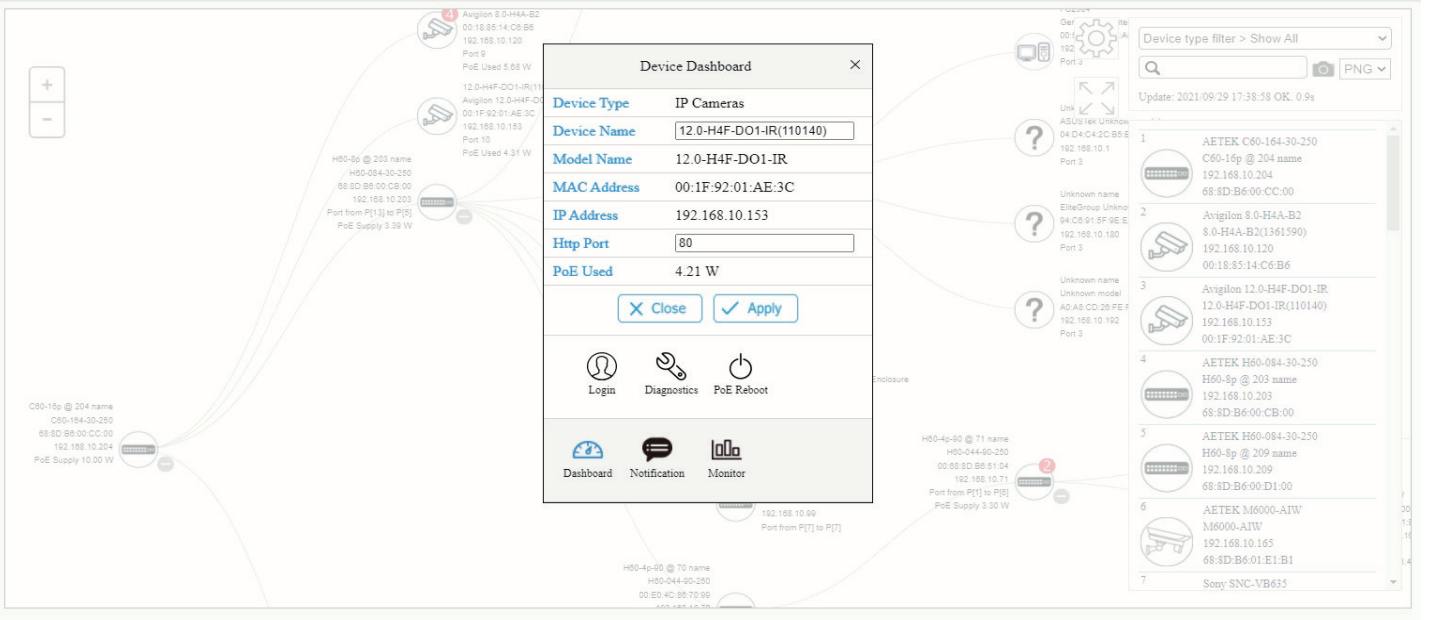
3

Next

Topology View



Device Dashboard



Floor Map View

Device Dashboard

Device Type

PoE Switches

Device Name

H60-4p-90 @ 73 name

Model Name

H60-044-90-250

MAC Address

00:E0:4C:51:04:0A

IP Address

192.168.10.73

Http Port

80

PoE Supply

0 W

API Account

admin73

API Password

passwd73

Close

Apply

Login

Upgrade

PoE Config

Diagnostics

Dashboard

Notification

1

2

3

15

Device type filter > Show All

Update: 2021/09/29 17:44:22 OK. 0.7s

1

AETEK C60-164-30-250

C60-16p @ 204 name

192.168.10.204

68:8D:B6:00:CC:00

X

2

Avigilon 8.0-H4A-B2

8.0-H4A-B2(1361590)

192.168.10.120

00:18:85:14:C6:B6

X

3

Avigilon 12.0-H4F-DO1-IR

12.0-H4F-DO1-IR(110140)

192.168.10.153

00:1F:92:01:AE:3C

X

4

AETEK H60-084-30-250

H60-8p @ 203 name

192.168.10.203

68:8D:B6:00:CB:00

X

5

AETEK H60-084-30-250

H60-8p @ 209 name

192.168.10.209

68:8D:B6:00:D1:00

X

6

AETEK M6000-AIW

M6000-AIW

192.168.10.165

68:8D:B6:01:E1:B1

X

Draggable: ONE

Google Map View

Search Box

Device Dashboard

Device Type

PoE Switches

Device Name

H60-8p @ 203 name

Model Name

H60-084-30-250

MAC Address

68:8D:B6:00:CB:00

IP Address

192.168.10.203

Http Port

80

PoE Supply

2.54 W

API Account

admin203

API Password

passwd203

Close

Apply

Upgrade

PoE Config

Dashboard

Notification

Device type filter > Show All

Update: 2021/09/29 17:48:45 OK. 1.4s

1

AETEK C60-164-30-250

C60-16p @ 204 name

192.168.10.204

68:8D:B6:00:CC:00

X

2

Avigilon 8.0-H4A-B2

8.0-H4A-B2(1361590)

192.168.10.120

00:18:85:14:C6:B6

X

3

Avigilon 12.0-H4F-DO1-IR

12.0-H4F-DO1-IR(110140)

192.168.10.153

00:1F:92:01:AE:3C

X

4

AETEK H60-084-30-250

H60-8p @ 203 name

192.168.10.203

68:8D:B6:00:CB:00

X

5

AETEK H60-084-30-250

H60-8p @ 209 name

192.168.10.209

68:8D:B6:00:D1:00

X

6

AETEK M6000-AIW

M6000-AIW

192.168.10.165

68:8D:B6:01:E1:B1

X

Draggable: ONE

Animation: OFF

Cable Diagnostics

+

-

Diagnostics

Device Type

IP Cameras

Device Name

12.0-H4F-DO1-IR(110140)

Model Name

12.0-H4F-DO1-IR

MAC Address

00:1F:92:01:AE:3C

IP Address

192.168.10.153

Icon

Diagnostics

1

AETEK C60-164-30-250

C60-16p @ 204 name

192.168.10.204

68:8D:B6:00:CC:00

Port: 10

Connection: ok

Speed: 100M

Cable Status: ok

3

Avigilon 12.0-H4F-DO1-IR

12.0-H4F-DO1-IR(110140)

192.168.10.153

00:1F:92:01:AE:3C

Back

Device type filter > Show All

Update: 2021/09/29 17:40:48 OK. 0.7s

1

AETEK C60-164-30-250

C60-16p @ 204 name

192.168.10.204

68:8D:B6:00:CC:00

X

2

Avigilon 8.0-H4A-B2

8.0-H4A-B2(1361590)

192.168.10.120

00:18:85:14:C6:B6

X

3

Avigilon 12.0-H4F-DO1-IR

12.0-H4F-DO1-IR(110140)

192.168.10.153

00:1F:92:01:AE:3C

X

4

AETEK H60-084-30-250

H60-8p @ 203 name

192.168.10.203

68:8D:B6:00:CB:00

X

5

AETEK H60-084-30-250

H60-8p @ 209 name

192.168.10.209

68:8D:B6:00:D1:00

X

6

AETEK M6000-AIW

M6000-AIW

192.168.10.165

68:8D:B6:01:E1:B1

X

7

Sony SNC-VB635

Sony SNC-VB635

192.168.10.165

68:8D:B6:01:E1:B1

X

PoE Features

- bt 90W
- Max. allowed 90W per port
- Port status table

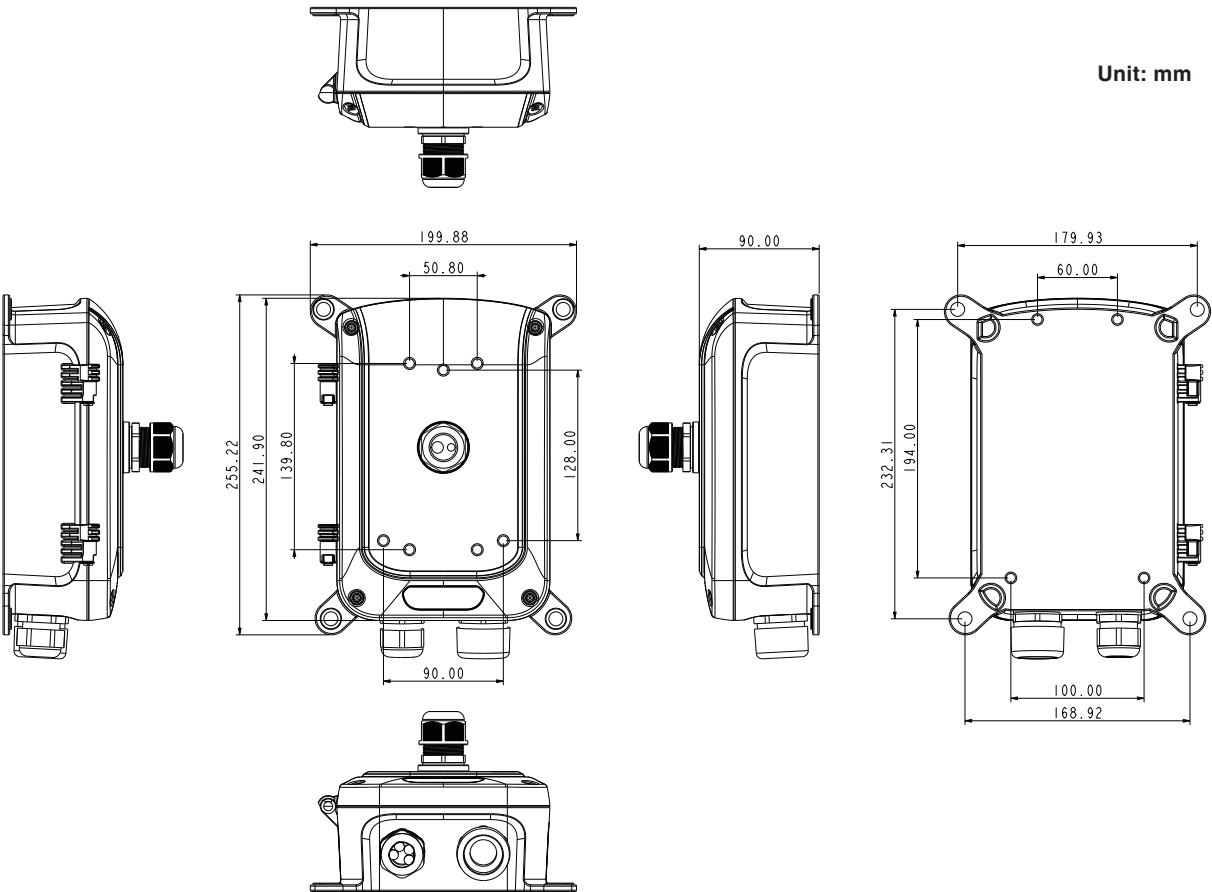
PoE Port Configuration					
Local Port	PD Class	Power Used	Current Used	Priority	Port Status
1	-	0.00 [W]	0 [mA]	high	No PD detected
2	-	0.00 [W]	0 [mA]	high	No PD detected
3	-	0.00 [W]	0 [mA]	high	No PD detected
4	class0	2.65 [W]	50 [mA]	high	on
5	-	0.00 [W]	0 [mA]	high	No PD detected
6	-	0.00 [W]	0 [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 Graphical 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 Specifications	
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 Specifications	
DHCP Server	Assign IP to DHCP clients
Security	
IEEE 802.1X	IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions, Supports IGMP-RADIUS based 802.1X, Dynamic VLAN assignment
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.
RADIUS/ TACACS+	Supports RADIUS and TACACS+ authentication. Switch as a client
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

	H60-022-90-DC-B
Networking	
Total Gigabit Ethernet Ports	4
Gigabit Ethernet 802.3af/at/bt PoE Ports	2 x 90W bt/PoH PoE
Gigabit Ethernet SFP Ports (100M/1G)	2
Forwarding Capacity	5.952Mpps
Mac Table	8K
Jumbo Frames	9,216 Bytes
Switching Capacity	8 Gbps
Power	
Input Voltage	12-56V DC
ESD	Contact ±6 KV, Air ±8 KV
Output Power per PoE Port	PoE IEEE 802.3af (Max. 15.4W) PoE+ IEEE 802.3at (Max. 30W) PoE++ IEEE 802.3bt (Max. 90W)
Output PoE Power Pin Assignment	12(-), 36(+), 45(+), 78(-)
System Power Consumption	12V DC: 6.36W 24V DC: 6.72W 48V DC: 7.2W
PoE Output Power Budget	12V DC:90W 24-56V DC:180W
Surge Protection per PoE Port	6KV
Surge Protection for DC Power Input Differential	mode : ±10 KV Differential
Mechanical	
Dimensions (W x D x H)	199.88 x 255.22 x 95 mm (7.9 x 10.0 x 3.7 in)
Weight	3.2 kg (7.05 lb)
Console	RJ45
Reset Button	2~7 sec.: Reset 7~12 sec.: Restore default
Connectors	M25 x 2
Environmental	
IP Rating	IP67
IK Rating	IK10
Operating Temperature	-40°C ~ 65°C (-40°F ~ 149°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	5% ~ 95% non-condensing
Certifications	
EMC	CE, FCC, VCCI, C-Tick Class A
Surge	EN61000-4-5



Optional Accessories

SFP Modules			
 SFP-ISX-X5 Industrial Gigabit SFP Transceiver • MMF • 0.5 km • -40°C ~85°C	 SFP-ISX-02 Industrial Gigabit SFP Transceiver • MMF • 2 km • -40°C ~85°C	 SFP-ILX-10 Industrial Gigabit SFP Transceiver • SMF • 10 km • -40°C ~85°C	 SFP-ILX-40 Industrial Gigabit SFP Transceiver • SMF • 40 km • -40°C ~85°C
Pole Mount Brackets		Corner Mount Bracket	Fiber Splice Tray
 AT-100 Pole Mount Adapter	 AT-101 Pole Mount Adapter	 AT-200 Corner Mount Adapter	 AT-302 Fiber Splice Tray