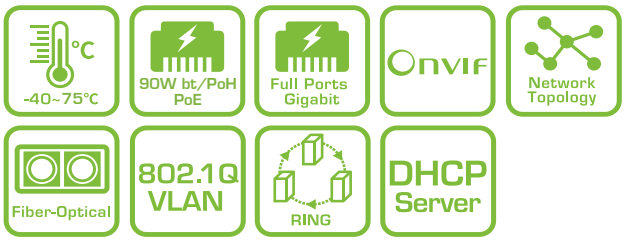
D60-084-90

Industrial L2 PRO 8-Port Gigabit bt/PoH PoE Switch



The D60-084-90 Industrial L2 PRO Managed PoE Switch is built for extreme environments, featuring 6kV surge protection per PoE port and thermally efficient design for reliable operation from -40°C to +75°C. It provides robust connectivity for outdoor PoE PDs, including IP cameras, wireless access points, and various industrial applications.

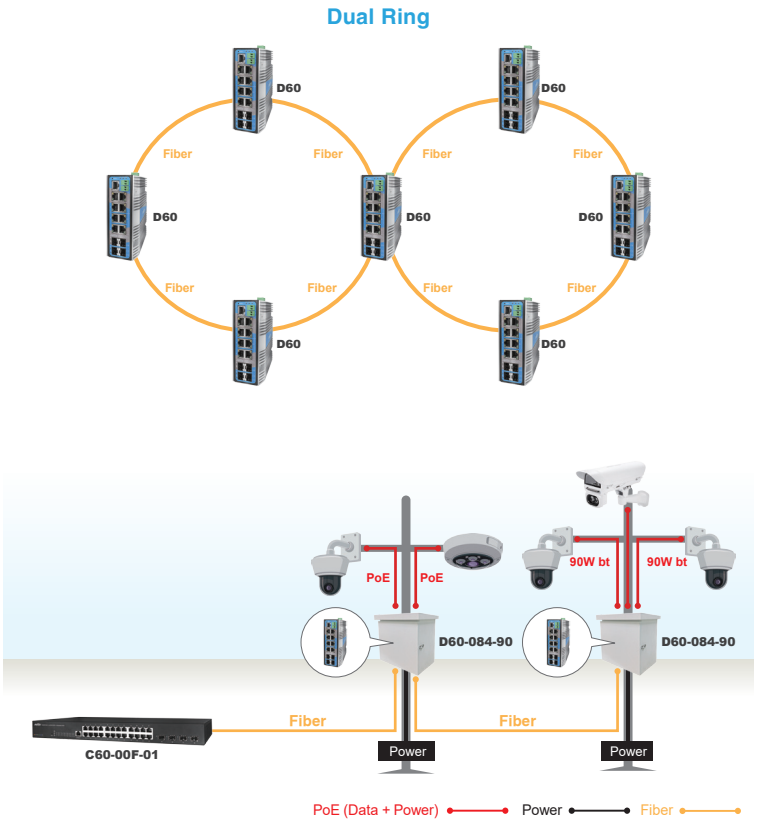
The D60-084-90 delivers 8-port Gigabit PoE (10M/100M/1G), combining power and data over a single Ethernet cable. Each port supports up to 90W PoE output, making it ideal for high-power devices. Additionally, it includes SFP transceiver slots to enable flexible fiber uplink configurations.

Beyond standard L2+ and basic L3 switch features (such as QoS, security, spanning tree, cable diagnostics, and SNMP v1/v2c/v3), the switch integrates AETEK's dedicated IP surveillance web UI, offering an intuitive platform for easy configuration and management of IP devices. The system automatically generates network topology maps, provides PoE management, and enables advanced cable diagnostics, streamlining deployment and maintenance.

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
- Operating temperature between -40°C and 75°C
- Compliant IEEE802.3 bt/at/af
- 90W bt/PoH PoE per port
- Supports 10/100/1000Mbps data rates
- 6KV PoE surge protection
- IEEE 802.3az Energy Efficient Ethernet standard for green power

Applications



IP Camera Controller Features

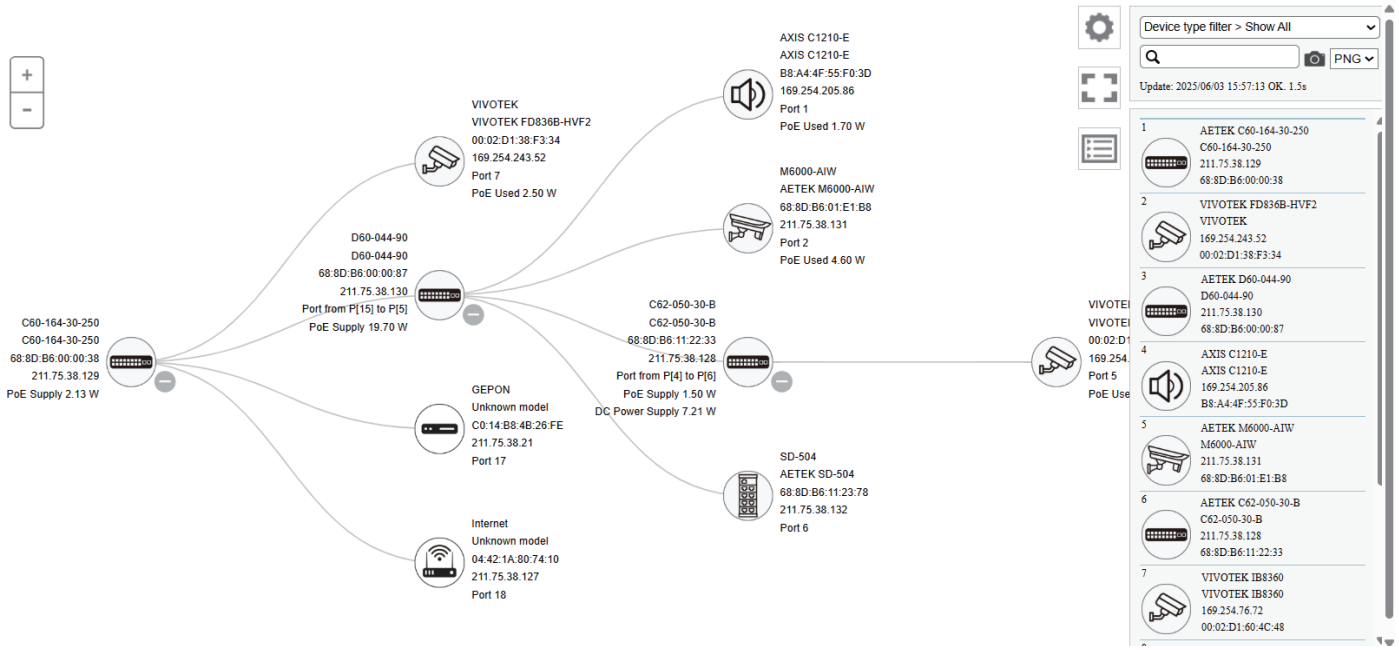
Device List

Auto Refresh ✔ Refresh Edit

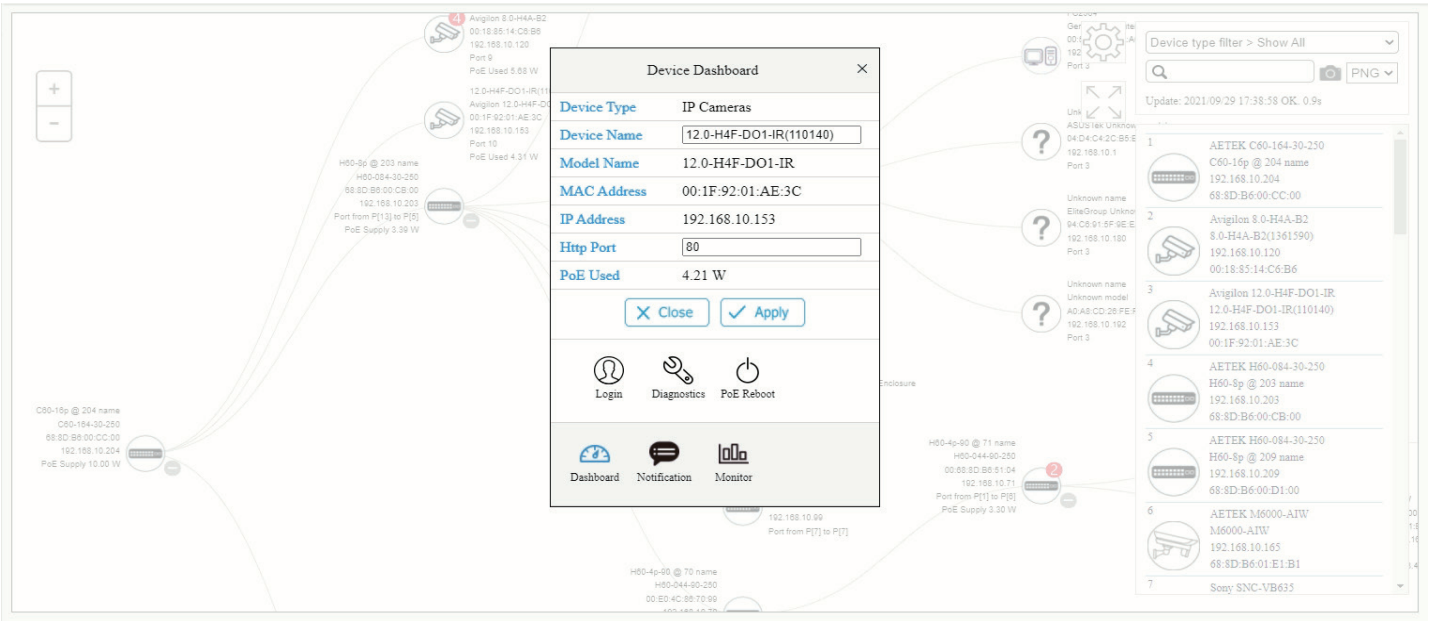
Show 10 entries Search:

Status	Device Type	Model Name	Device Name	MAC	IP Address
Online	PoE Switches	C60-164-30-250	C60-164-30-250	68:8D:B6:00:00:38	211.75.38.129
Online	IP Cameras	FD836B-HVF2	VIVOTEK	00:02:D1:38:F3:34	169.254.243.52
Online	PoE Switches	D60-044-90	D60-044-90	68:8D:B6:00:00:87	211.75.38.130
Online	IP Speaker	C1210-E	AXIS C1210-E	B8:A4:4F:55:F0:3D	169.254.205.86
Online	Smart Camera Housings	M6000-AIW	M6000-AIW	68:8D:B6:01:E1:B8	211.75.38.131
Online	PoE Switches	C62-050-30-B	C62-050-30-B	68:8D:B6:11:22:33	211.75.38.128
Online	IP Cameras	IB8360	VIVOTEK IB8360	00:02:D1:60:4C:48	169.254.76.72
Online	Modular Surge Protectors	SD-504	SD-504	68:8D:B6:11:23:78	211.75.38.132
Online	Gateway	Unknown model	GEPON	C0:14:B8:4B:26:FE	211.75.38.21
Online	WiFi AP	Unknown model	Internet	04:42:1A:80:74:10	211.75.38.127

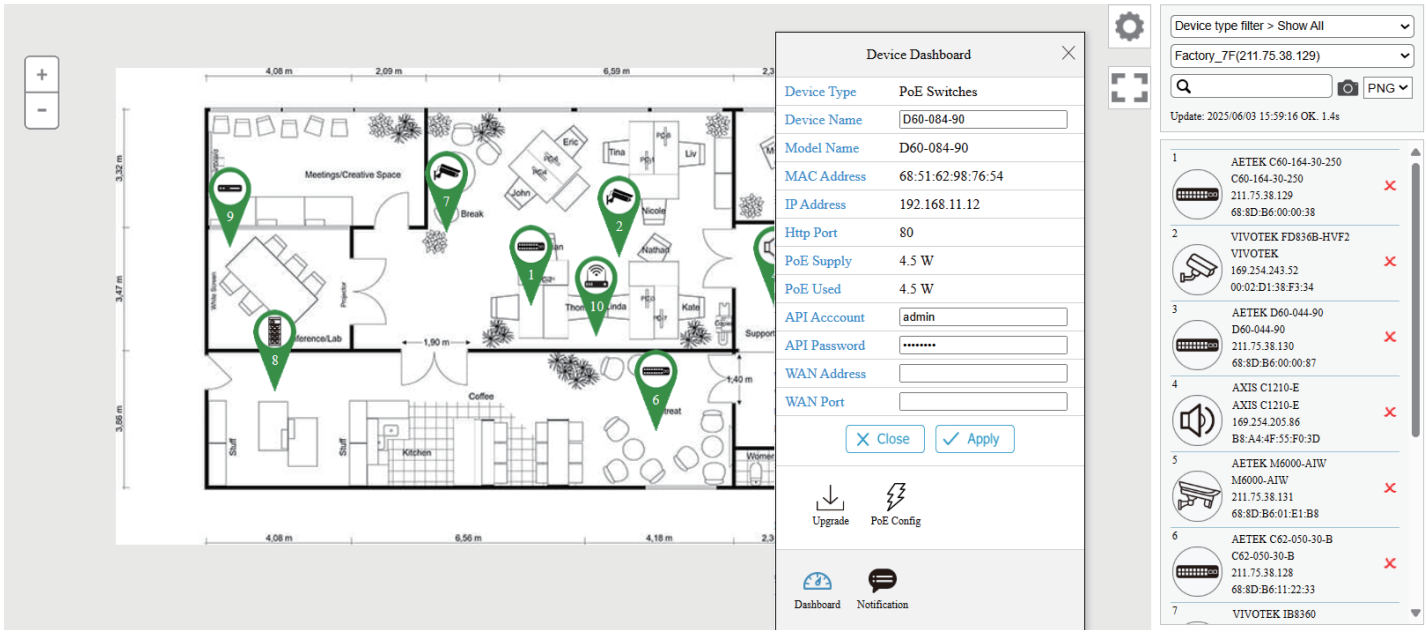
Topology View



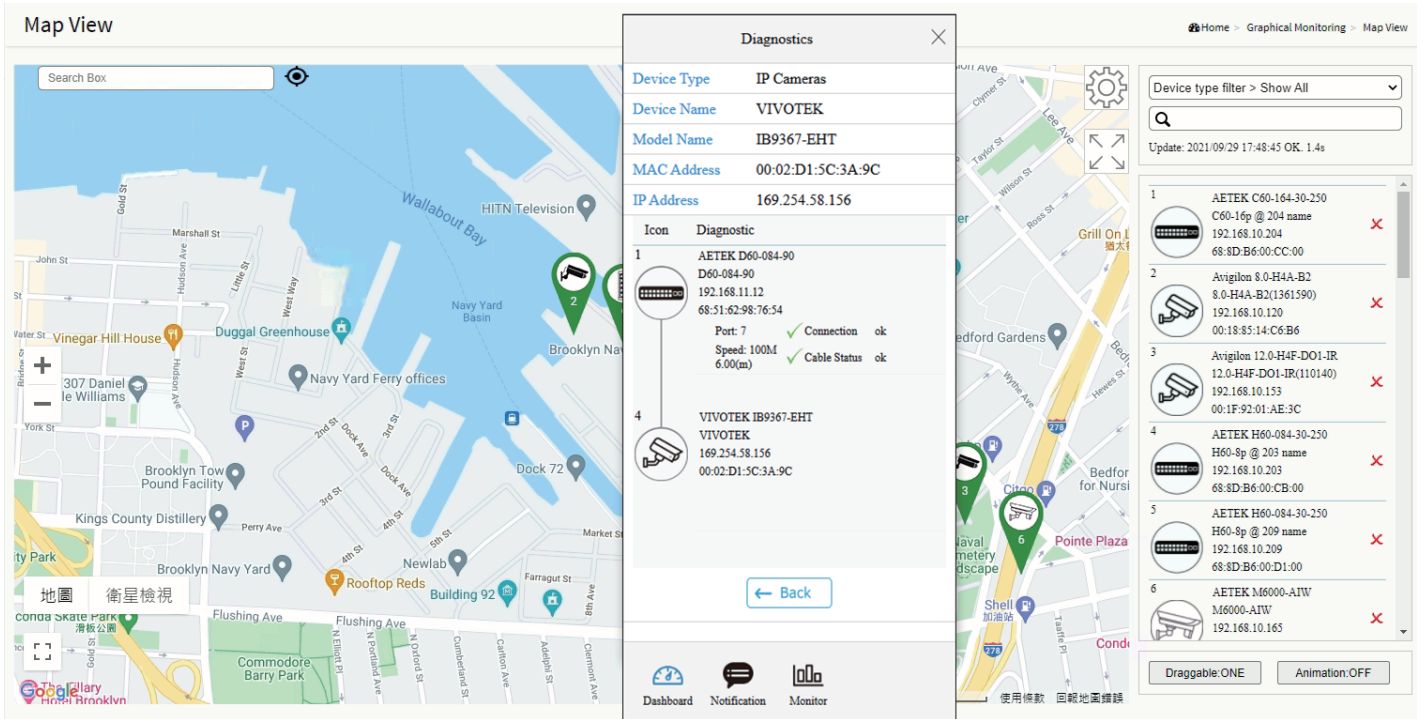
Device Dashboard



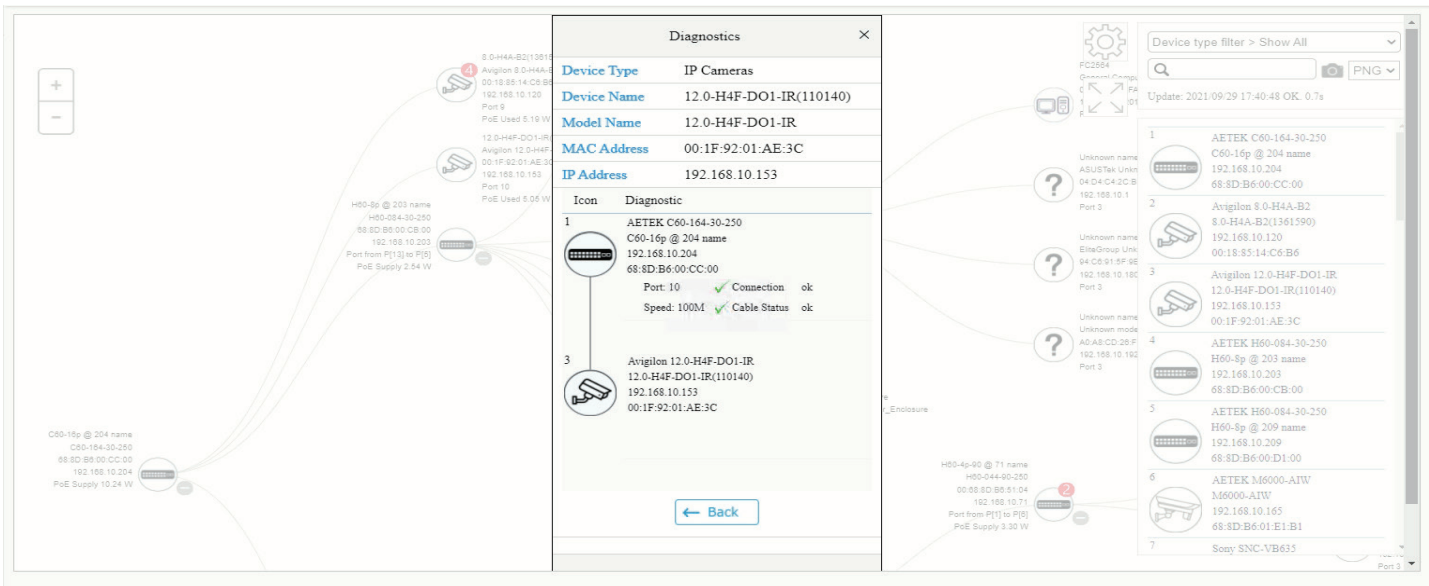
Floor Map View



Google Map View



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

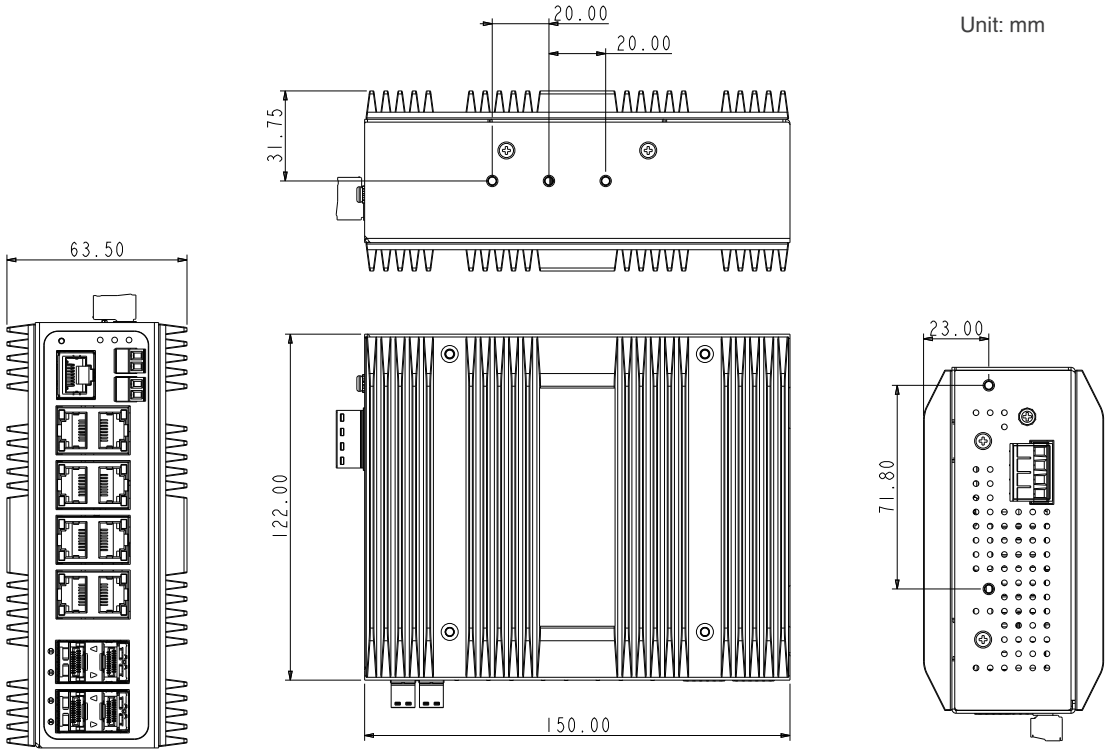
PoE Management	
Port Configuration	Supports per port PoE configuration function
PoE Scheduling	Supports per port PoE scheduling to turn on/off the PoE devices (PDs).
Auto-checking	Check the link status of PDs. Reboot PDs if there is no responses
Power Delay	The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs.
IP Surveillance 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
IEEE 802.3az	Energy Efficient Ethernet standard for green power
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

	D60-084-90
Software function: NTS(Monitoring and management of surveillance)	
NTS Edge	support
NTS Server	support
Networking	
Total Gigabit Ethernet Ports	12
Gigabit Ethernet 802.3af/at/bt/PoH PoE Ports	8
Gigabit Ethernet SFP Ports (100M/1G)	4
Forwarding Capacity	17.856Mpps
Mac Table	8K
Jumbo Frames	9,216 Bytes
Switching Capacity	24 Gbps
Power	
Input Power	Dual 48-56V DC
Output Power per PoE Port	PoE IEEE 802.3af (Max. 15.4W) PoE+ IEEE 802.3at (Max. 30W) PoE++ IEEE 802.3bt/PoH (Max. 90W)
Output PoE Power Pin Assignment	12(-), 36(+), 45(+), 78(-)
Standby Power Consumption	48V DC: 5.76W
Total Output Power Budget	480W
ESD	Contact ±6 KV, Air ±8 KV
Surge Protection per PoE Port	Online Common mode : ±6 KV
Surge Protection for DC Power Output	Differential mode : ±1 KV
Surge Protection for DC Power Input	Differential mode : ±1 KV
Surge Protection for DI/DO Port	Differential mode : ±1 KV
Mechanical	
Dimensions (W x D x H)	63.5 x 122 x 150 mm (2.5 x 0.2 x 5.9 in)
Weight	1.4 kg (3.09 lb)
DI	Dry Contact: Logic level 1: Close to GND Logic level 0: Open
DO	24V DC/1A (Max)
Console	RJ45
Cooling Fan	Fanless
Environmental limits	
IP Rating / IK Rating	IP30
Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	5% ~ 95% non-condensing
Certifications	
EMC	CE, FCC, VCCI, C-Tick
Surge	EN61000-4-5
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-31
Vibration	IEC 60068-2-6
MTBF	>50000 hours
Optional Accessories	
Industrial Power Supply	DRL-48V120W1EN : 48V/120W / DRL-48V240W1EN : 48V/240W / DRL-48V480W1EN : 48V/480W
SFP Module	SFP Module Model Table
Junction Box	JB-200

Dimension

Unit: mm



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

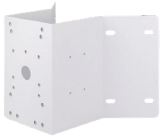
SFP-ILX-40
Industrial Gigabit SFP Transceiver
- SMF
- 40 km
- -40°C ~85°C

Pole Mount

AT-100
Pole Mount Adapter

AT-101
Pole Mount Adapter

Corner Mount



AT-200
Corner Mount Adapter

Jounction Box

JB-200
Junction Box

Industrial Power Supply

DRL-48V480W1EN
Indoor Industrial Din Rail Power Supply, 48V/480W

6F, No.192-1, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C. T: +886-2-82452822 E:sales@aetektec.com W: www.aetektec.com