

D62-084-MX-DC

Industrial L2 PRO 4-Port Gigabit bt/PoH PoE and 4-Port Gigabit at PoE Switch, 12V/24V DC Output, 12-48V DC Input



The D62-084-MX-DC is an industrial-grade L2 PRO PoE switch. Built with 6KV PoE surge protection and a wide operating temperature range of -40°C to 75°C, it ensures durability and reliability in harsh environments. Supporting IEEE 802.3bt/PoH (90W) and IEEE 802.3at (30W) PoE outputs, the switch efficiently powers high performance devices such as PTZ cameras, wireless APs, and other industrial applications. **Perpetual PoE** (FW v3.05.02+) provides uninterrupted power to connected PDs even during switch reboots and firmware upgrades.

In addition to PoE, this switch provides 12V and 24V DC outputs for non-PoE devices such as 4G/5G LTE routers, LEDs, and strobe lights. Its wide 12–48V DC input enables flexible deployment in solar-powered systems, smart poles, and factory facilities that rely on DC power sources without additional power conversion.

Equipped with multi-port Gigabit PoE and SFP slots, the switch ensures seamless data and power transmission. It also incorporates NTS (Network Topology System), an intuitive web interface that streamlines network management with automatic device discovery, real-time topology views, PoE reboot, cable diagnostics, and comprehensive management tools.

Features

- 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
- Operating temperature between -40°C and 75°C
- 6KV PoE surge protection
- **Perpetual PoE** (Supported from FW v3.05.02 onwards)
 - Maintains uninterrupted power to connected devices during switch reboots and firmware upgrades
 - PoE output: 90W bt/PoH PoE (Port 1-4) and 30W at PoE (Port 5-8)
 - 12V / 24V DC output ports
 - Thermal-efficient design ensure reliable performance at full load for the stated input levels:
 - Up to 100W @ 12V DC Input
 - Up to 200W @ 24V DC Input
 - Up to 400W @ 48V DC Input

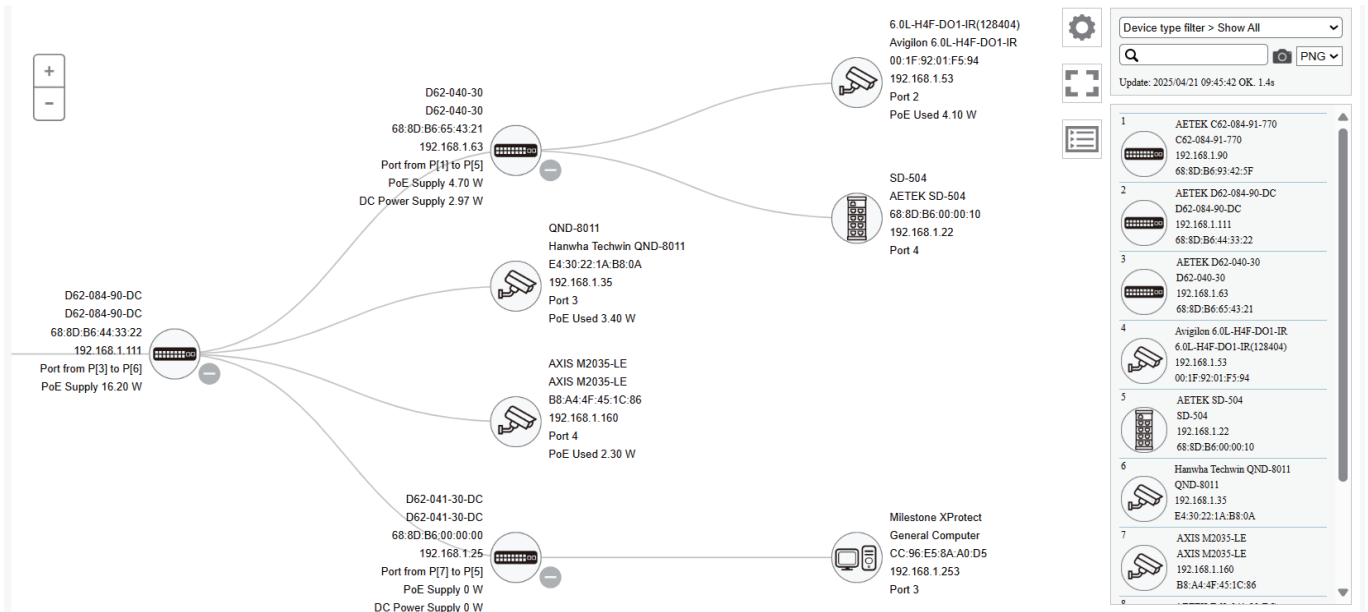
Applications





NTS (Network Topology System)

Topology View



Google Map View

Field	Value
Device Type	PoE Switches
Device Name	D62-084-90-DC
Model Name	D62-084-90-DC
MAC Address	68:8D:B6:44:33:22
IP Address	192.168.1.111
Http Port	80
PoE Supply	19.6 W
PoE Used	19.6 W
API Account	admin
API Password	*****
WAN Address	
WAN Port	

Floor Map View

Device Dashboard

Device Type PoE Switches

Device Name D62-084-90-DC

Model Name D62-084-90-DC

MAC Address 68:8D:B6:44:33:22

IP Address 192.168.1.111

Http Port 80

PoE Supply 19.6 W

PoE Used 19.6 W

API Account admin

API Password *****

WAN Address

WAN Port

Close Apply

Upgrade PoE Config DC Config

Dashboard Notification

Device type filter > Show All

floorplan1(192.168.1.111)

Update: 2025/04/21 17:49:29 OK. 1.2s

- AETEK D62-084-90-DC
D62-084-90-DC
192.168.1.111
68:8D:B6:44:33:22
- AETEK D62-040-30
D62-040-30
192.168.1.63
68:8D:B6:65:43:21
- Avigilon 6.0L-H4F-DO1-IR
6.0L-H4F-DO1-IR(128404)
192.168.1.53
00:1F:92:01:F5:94
- AETEK SD-504
SD-504
192.168.1.22
68:8D:B6:00:00:10
- Hanwha Techwin QND-8011
QND-8011
192.168.1.35
E4:30:22:1A:B8:0A
- AXIS M2035-LE
AXIS M2035-LE
192.168.1.160
B8:A4:4F:45:1C:86
- AETEK C62-084-91-770

Draggable: OFF

Device Dashboard

Device Dashboard

Device Type IP Cameras

Device Name QND-8011

Model Name QND-8011

MAC Address E4:30:22:1A:B8:0A

IP Address 192.168.1.35

Http Port 80

PoE Used 3.9 W

WAN Address

WAN Port

Close Apply

Login Diagnostics PoE Reboot

Dashboard Notification Monitor

Avigilon 6.0L-H4F-DO1-IR
00:1F:92:01:F5:94
192.168.1.53
Port 2
PoE Used 4.30 W

SD-504
AETEK SD-504
68:8D:B6:00:00:10
192.168.1.22
Port 4

Milestone XProtect
General Computer
CC:96:E5:8A:A0:D5
192.168.1.253
Port 3

D62-040-30
D62-040-30
68:8D:B6:65:43:21
192.168.1.63
Port from P[1] to P[5]
PoE Supply 4.70 W
DC Power Supply 2.97 W

D62-041-30-DC
D62-041-30-DC
68:8D:B6:00:00:00
192.168.1.25
Port from P[7] to P[5]
PoE Supply 0 W
DC Power Supply 0 W

D62-084-90-DC
D62-084-90-DC
68:8D:B6:44:33:22
192.168.1.111
Port from P[3] to P[6]
PoE Supply 16.20 W

Device type filter > Show All

floorplan1(192.168.1.111)

Update: 2025/04/21 09:53:23 OK. 0.3s

- AETEK C62-084-91-770
C62-084-91-770
192.168.1.90
68:8D:B6:93:42:5F
- AETEK D62-084-90-DC
D62-084-90-DC
192.168.1.111
68:8D:B6:44:33:22
- AETEK D62-040-30
D62-040-30
192.168.1.63
68:8D:B6:65:43:21
- Avigilon 6.0L-H4F-DO1-IR
6.0L-H4F-DO1-IR(128404)
192.168.1.53
00:1F:92:01:F5:94
- AETEK SD-504
SD-504
192.168.1.22
68:8D:B6:00:00:10
- Hanwha Techwin QND-8011
QND-8011
192.168.1.35
E4:30:22:1A:B8:0A
- AXIS M2035-LE
AXIS M2035-LE
192.168.1.160
B8:A4:4F:45:1C:86

Cable Diagnostics

Diagnostics

Device Type IP Cameras

Device Name QND-8011

Model Name QND-8011

MAC Address E4:30:22:1A:B8:0A

IP Address 192.168.1.35

Icon Diagnostic

1 AETEK C62-084-91-770
C62-084-91-770
192.168.1.90
68:8D:B6:93:42:5F
Port 3 ✓ Connection ok
Speed: 1G 13.00(m) ✓ Cable Status ok

2 AETEK D62-084-90-DC
D62-084-90-DC
192.168.1.111
68:8D:B6:44:33:22
Port 3 ✓ Connection ok
Speed: 100M 6.00(m) ✓ Cable Status ok

6 Hanwha Techwin QND-8011
QND-8011
192.168.1.35
E4:30:22:1A:B8:0A

6.0L-H4F-DO1-IR(128404)
Avigilon 6.0L-H4F-DO1-IR
00:1F:92:01:F5:94
192.168.1.53
Port 2
PoE Used 3.70 W

SD-504
AETEK SD-504
68:8D:B6:00:00:10
192.168.1.22
Port 4

Milestone XProtect
General Computer
CC:96:E5:8A:A0:D5
192.168.1.253
Port 3

D62-040-30
D62-040-30
68:8D:B6:65:43:21
192.168.1.63
Port from P[1] to P[5]
PoE Supply 4.70 W
DC Power Supply 2.97 W

D62-041-30-DC
D62-041-30-DC
68:8D:B6:00:00:00
192.168.1.25
Port from P[7] to P[5]
PoE Supply 0 W
DC Power Supply 0 W

D62-084-90-DC
D62-084-90-DC
68:8D:B6:44:33:22
192.168.1.111
Port from P[3] to P[6]
PoE Supply 16.20 W

Device type filter > Show All

floorplan1(192.168.1.111)

Update: 2025/04/21 09:53:53 OK. 0.3s

- AETEK C62-084-91-770
C62-084-91-770
192.168.1.90
68:8D:B6:93:42:5F
- AETEK D62-084-90-DC
D62-084-90-DC
192.168.1.111
68:8D:B6:44:33:22
- AETEK D62-040-30
D62-040-30
192.168.1.63
68:8D:B6:65:43:21
- Avigilon 6.0L-H4F-DO1-IR
6.0L-H4F-DO1-IR(128404)
192.168.1.53
00:1F:92:01:F5:94
- AETEK SD-504
SD-504
192.168.1.22
68:8D:B6:00:00:10
- Hanwha Techwin QND-8011
QND-8011
192.168.1.35
E4:30:22:1A:B8:0A
- AXIS M2035-LE
AXIS M2035-LE
192.168.1.160
B8:A4:4F:45:1C:86

Device Throughput

The screenshot displays the 'Device Throughput' interface. On the left, a network topology diagram shows a central switch connected to several devices. The central switch is labeled 'D62-040-30' and 'D62-040-30' with MAC address '68:8D:B6:65:43:21' and IP '192.168.1.63'. It is connected to devices like 'D62-084-90-DC' (IP 192.168.1.111), 'D62-041-30-DC' (IP 192.168.1.25), and '6.0L-H4F-DO1-IR(128404)' (IP 192.168.1.53). A 'Device Throughput' window is open, showing details for an 'IP Camera' (QND-8011) with MAC 'E4:30:22:1A:B8:0A' and IP '192.168.1.35'. Below this is a line graph showing throughput in (TX Mb) over time (sec) from 60 to 10. The graph shows a peak of approximately 0.1 Mb/s. At the bottom of the window, there are input fields for 'Max(Mb): 0', 'Min(Mb): 0', and 'Count: 0', with an 'Action' dropdown set to 'Nothing'. A 'Device type filter' sidebar on the right lists various devices like 'AETEK C62-084-91-770', 'AETEK D62-084-90-DC', and 'Avigilon 6.0L-H4F-DO1-IR'.

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]			

Buttons:

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.

Specifications - Software

Layer 3 Switching Specifications	
DHCP Server	Assign IP to DHCP clients
Security	
IEEE 802.1X	IEEE802.1X: RADIUS authentication, authorization, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions, 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
IEEE 802.1ab (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network
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

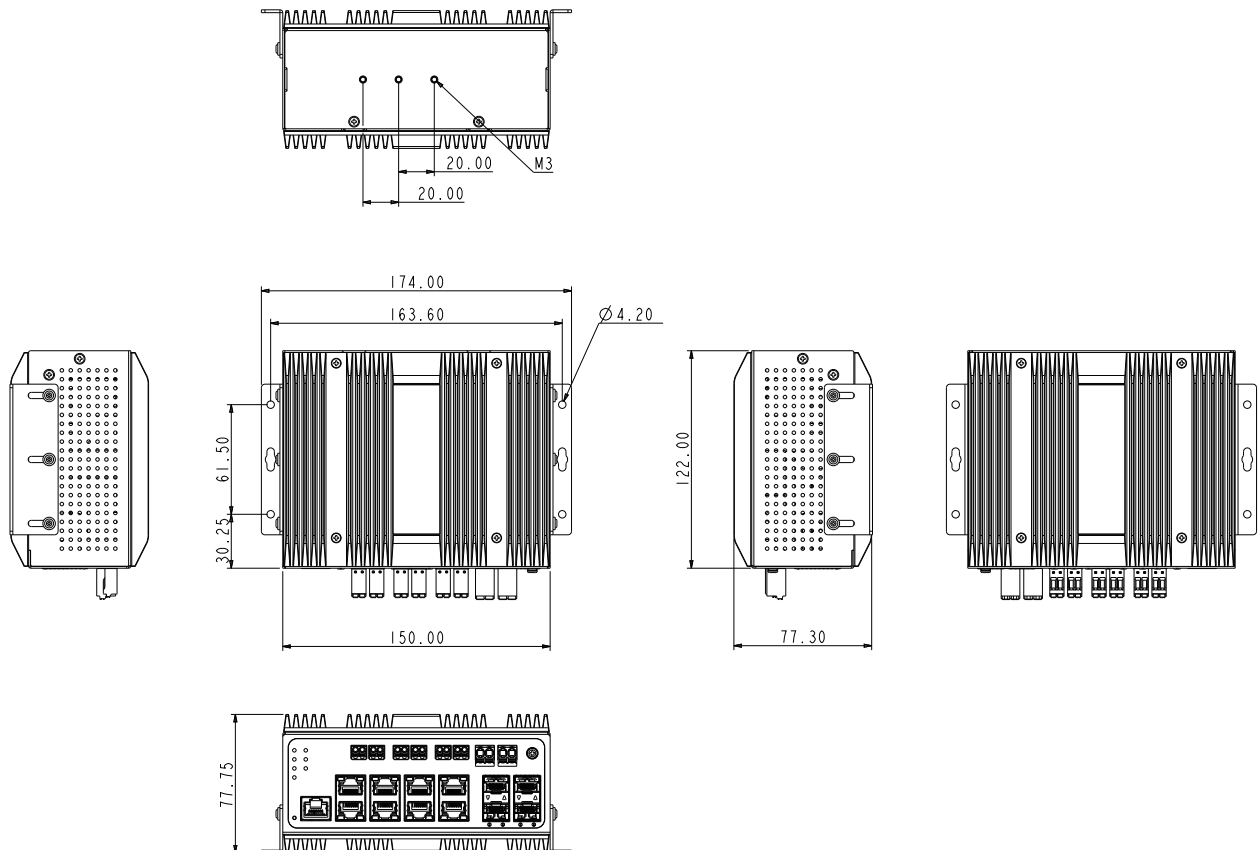
Specifications - Hardware

	D62-084-MX-DC
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 PoE Ports	4
Gigabit Ethernet 802.3af/at/bt/PoH PoE Ports	4
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 12-48V DC
Output Power per PoE Port	(Port 1-4) PoE IEEE 802.3af (Max. 15.4W) PoE+ IEEE 802.3at (Max. 30W) PoE++ IEEE 802.3bt/PoH (Max. 90W) (Port 5-8) PoE IEEE 802.3af (Max. 15.4W) PoE+ IEEE 802.3at (Max. 30W)
Output PoE Power Pin Assignment	at: 12(+), 36(-) bt: 12(-), 36(+), 45(+), 78(-)
Output Power per DC Port	2 x 12V DC@2A 2 x 24V DC@1A
Standby Power Consumption	12V DC: 5.28W 24V DC: 5.76W 48V DC: 5.78W
Total Output Power Budget	12V DC: 100W 24V DC: 200W 48V DC: 400W
Power Efficiency	12V DC: 91.22% 24V DC: 95.41% 48V DC: 96.94%
ESD	Contact ±6 KV, Air ±8 KV

Specifications - Hardware

	D62-084-MX-DC
Power	
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 : ± 6 KV
Mechanical	
Dimensions (W x D x H)	77.3 x 122 x 150 mm (3.0 x 4.8 x 5.9 in)
Weight	1.85 kg (4.08 lb)
DI	Dry Contact: Logic level 1: Close to GND Logic level 0: Open
DO	24V DC/1A (Max)
Console	RJ45
Cooling Fan	Fanless
Mounting	Din-Rail / Wall Mount
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
Regulatory/ Approvals	
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

Dimensions



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

SFP Modules



SFP-ILX-80
Industrial Gigabit SFP Transceiver

- SMF
- 80 km
- -40°C ~85°C

Industrial Power Supply



DRL-48V120W1EN
Industrial Din-Rail Power Supply,
48VDC, 120W, -30°C ~ 70°C



DRL-48V240W1EN
Industrial Din-Rail Power Supply,
48VDC, 240W, -30°C ~ 70°C



DRL-48V480W1EN
Industrial Din-Rail Power Supply,
48VDC, 480W, -30°C ~ 70°C

Pole Mount



AT-100
Pole Mount Adapter



AT-101
Pole Mount Adapter

Corner Mount



AT-200
Corner Mount Adapter

Junction Box



JB-200
Junction Box