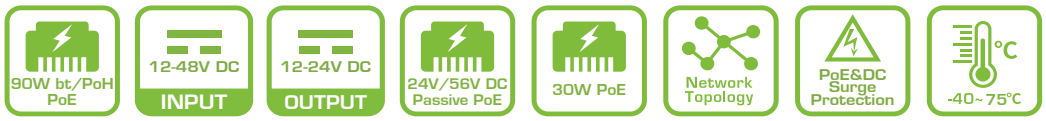
# D62-084-MX-DCP

## Industrial L2 PRO 4-Port Gigabit bt/PoH PoE, 2-Port Gigabit at PoE, Adjustable 24V/56V DC Passive PoE Switch with 12V/24V DC Output, 12-48V DC Input




The D62-084-MX-DCP is an industrial-grade L2 PRO PoE switch, delivering 6kV PoE surge protection and operating reliably in extreme temperatures from -40°C to 75°C for demanding environments. With support for 12–48VDC input, it provides IEEE 802.3bt/PoH (90W) and IEEE 802.3at (30W) outputs to power high-performance PoE devices such as PTZ and multi-sensor cameras, IP speakers, wireless APs, and more industrial applications.

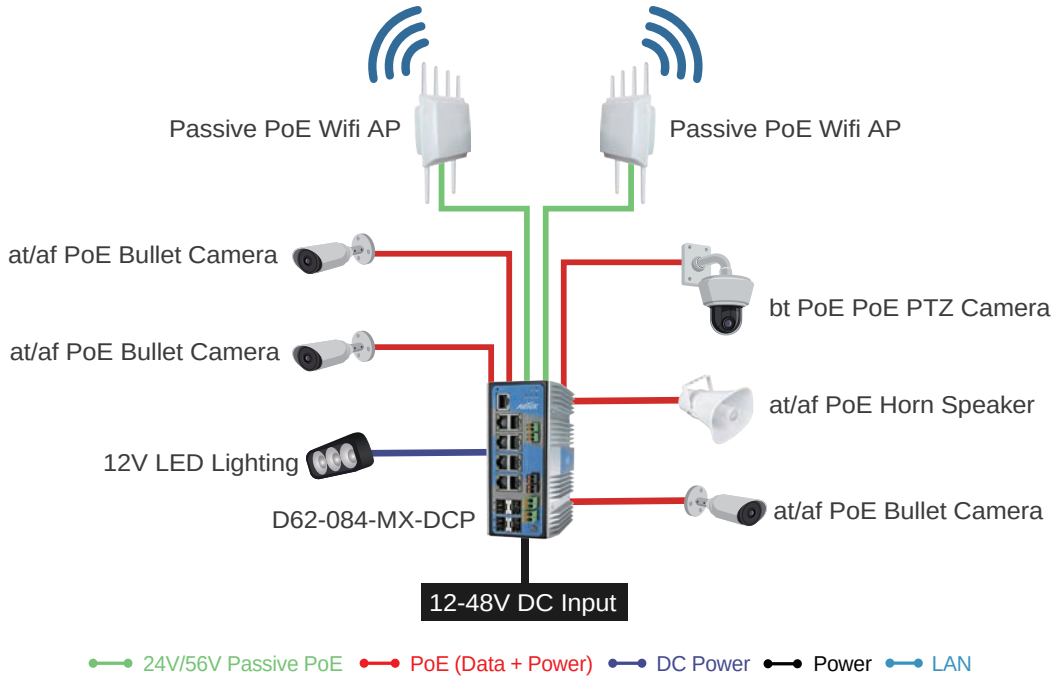
In addition, its adjustable 24V or 56V DC Passive PoE outputs provide flexible power options for IEEE 802.3af PoE devices and a variety of Passive PoE wireless nodes, reducing installation complexity and eliminating the need for external power adapters. Beyond PoE, this switch offers 12V and 24V DC outputs to support non-PoE network devices. Its multi-port Gigabit PoE capability ensures efficient power and data delivery over a single cable, while SFP transceiver slots provide flexible uplink connectivity for scalable network deployments.

The D62-084-MX-DCP also embedded with AETEK's Network Topology System (NTS), an intuitive web-based interface, enabling features like automatic device discovery, real-time graphical topology view, PoE reboot, and cable diagnostics. Combined with its ruggedized design and advanced management tools, the D62-084-MX-DCP offers a reliable, flexible, and cost-effective solution for industrial and surveillance PoE networks.

## 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
- PoE output: 90W bt/PoH PoE (Port 1-4)
  and 30W at PoE (Port 5-6)
- 24V/56V 2-pair/4-pari Adjustable passive PoE output(Port 7-8)
- 12V / 24V DC output ports
- Flexible SFP transceiver ports for uplink
- Operating temperature between -40°C and 75°C
- 6KV PoE surge protection
- 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

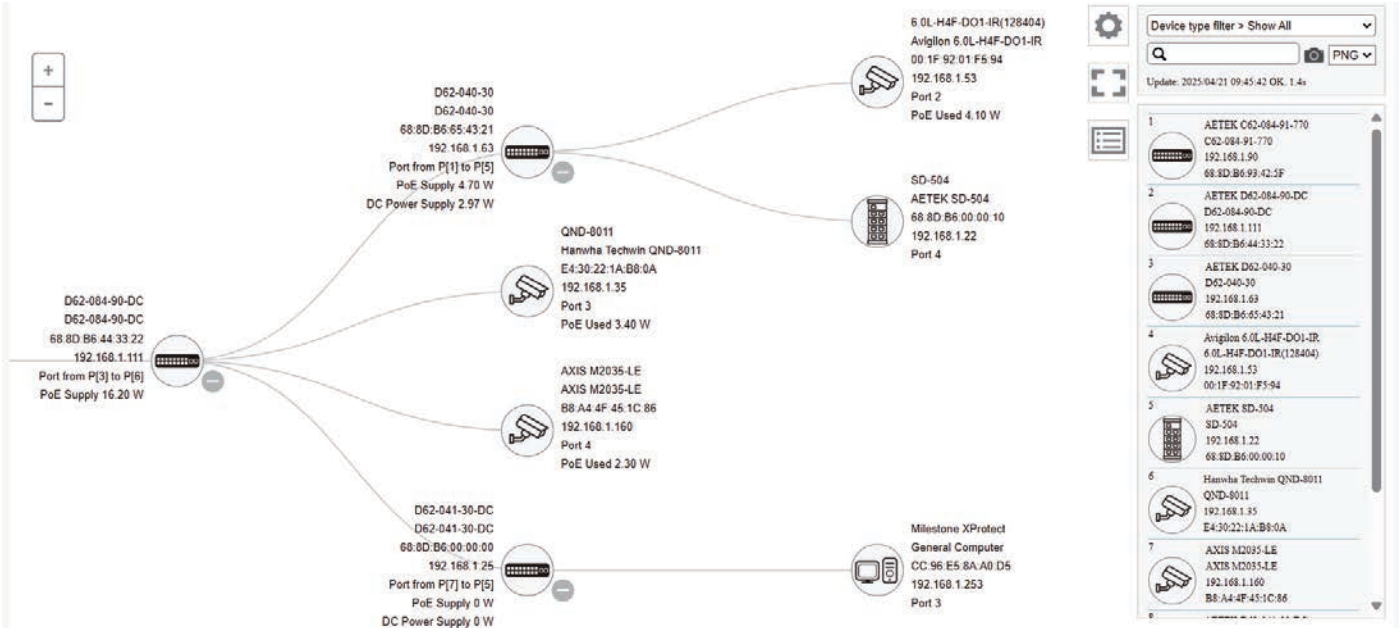


## Applications

Power PoE (Data + Power) 12V/24V DC Power

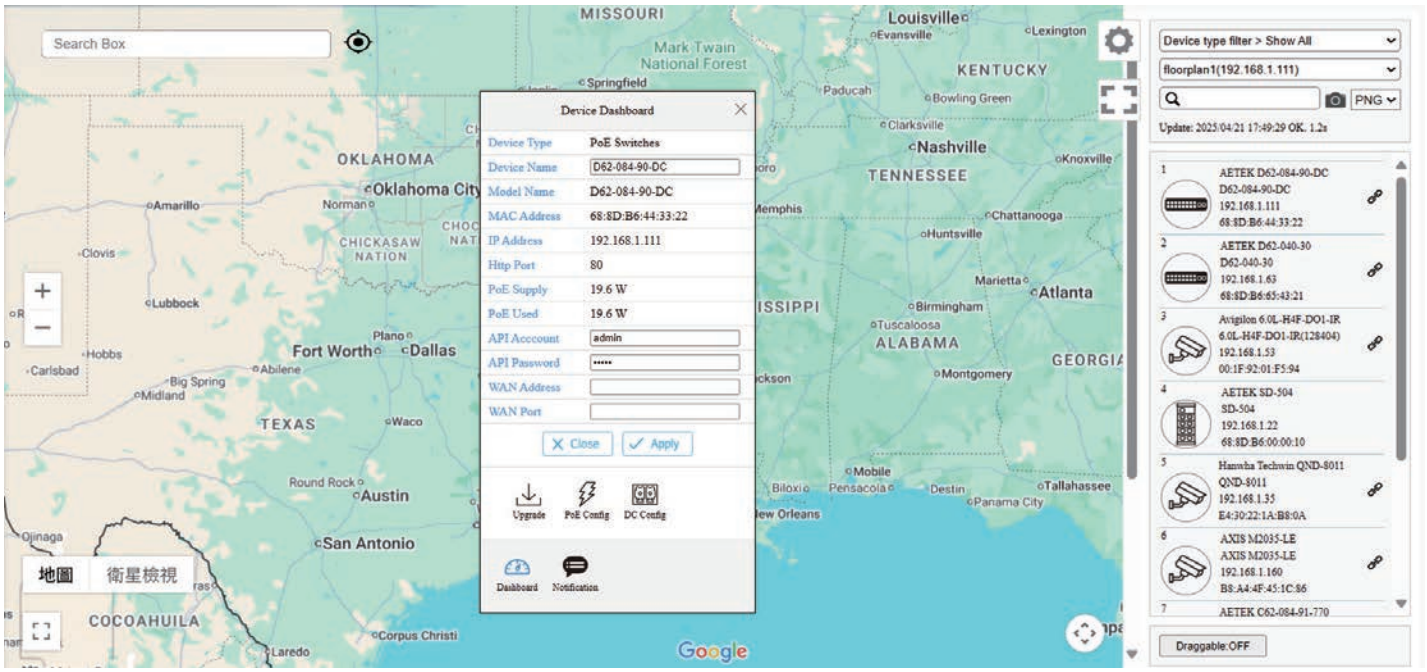
## NTS (Network Topology System)

### Topology View



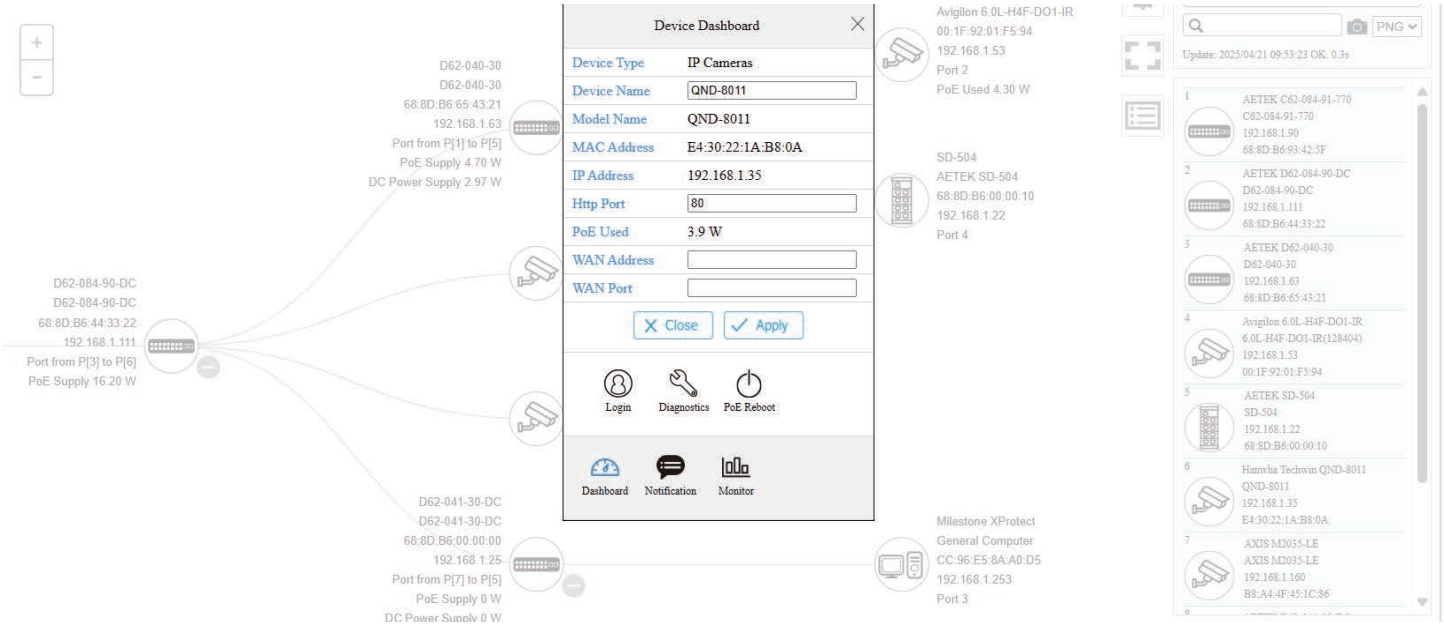
# NTS (Network Topology System)

## Google Map View



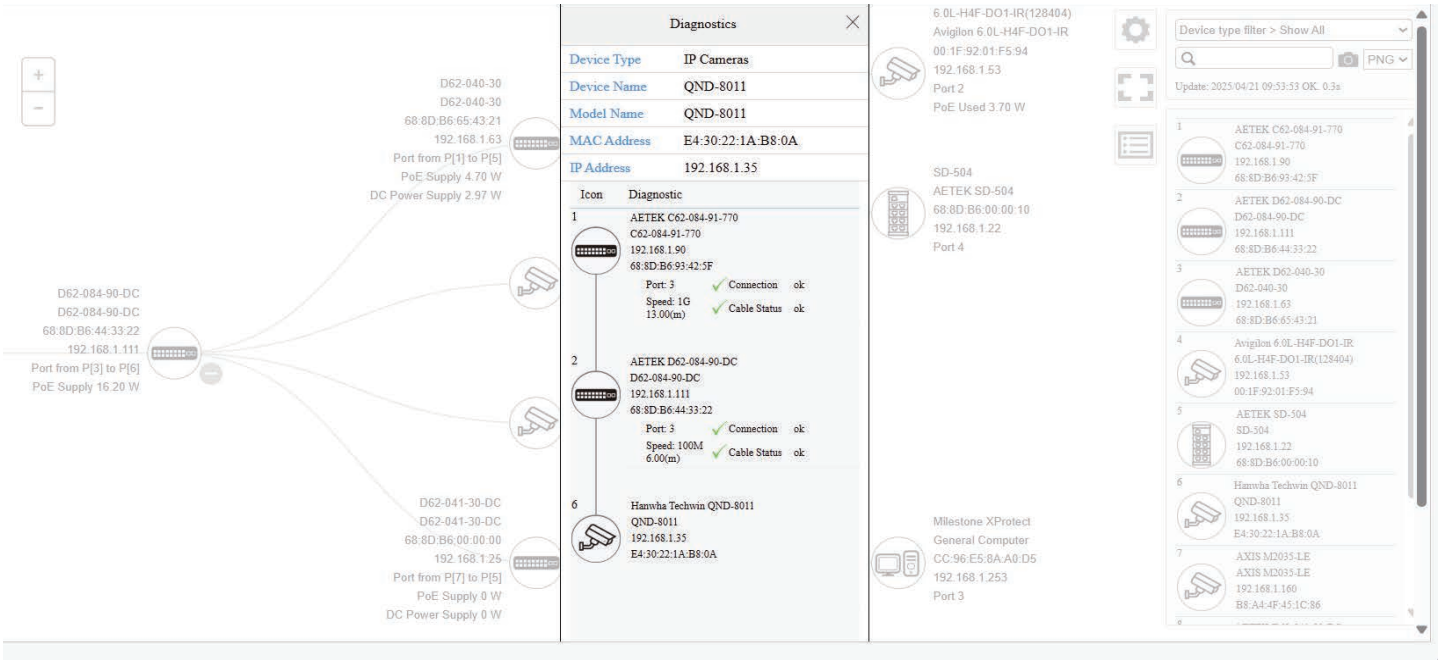

## Floor Map View

## Device Dashboard

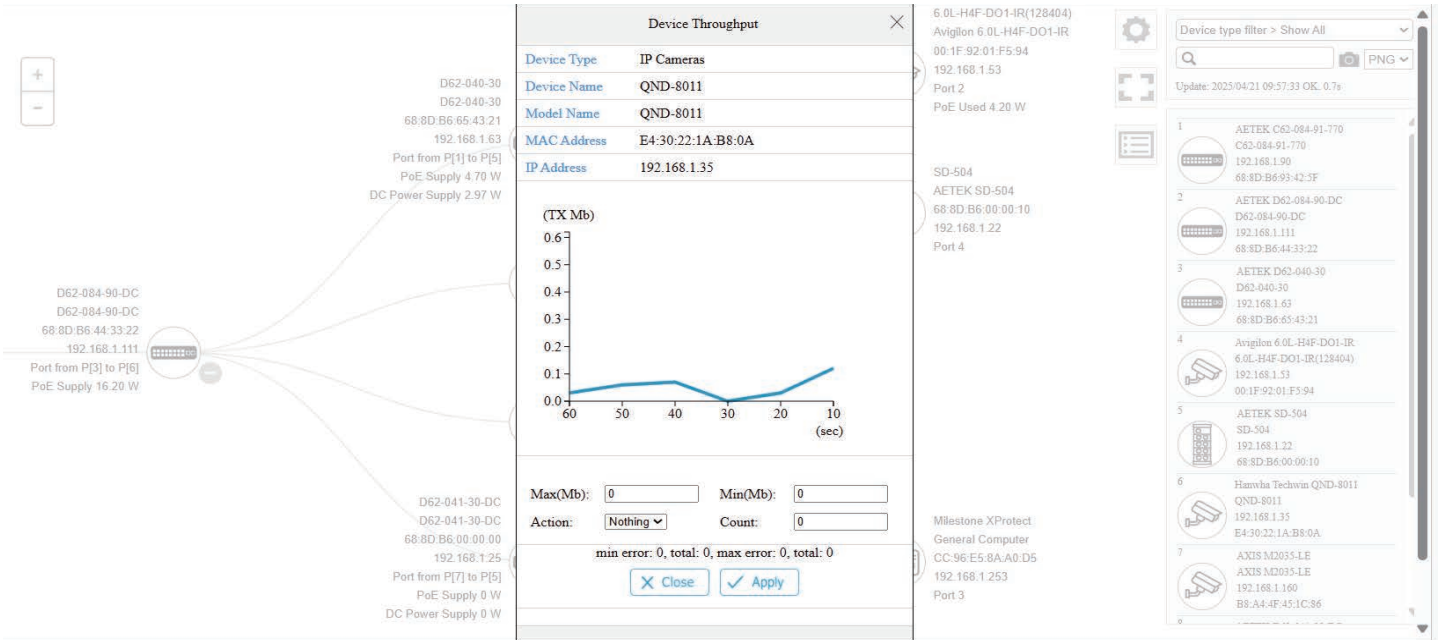


## NTS (Network Topology System)

### Cable Diagnostics




### Device Throughput




## PoE Features

- **IEEE802.3bt/at/af**
- **Max. allowed 90W**
- **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, 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 |

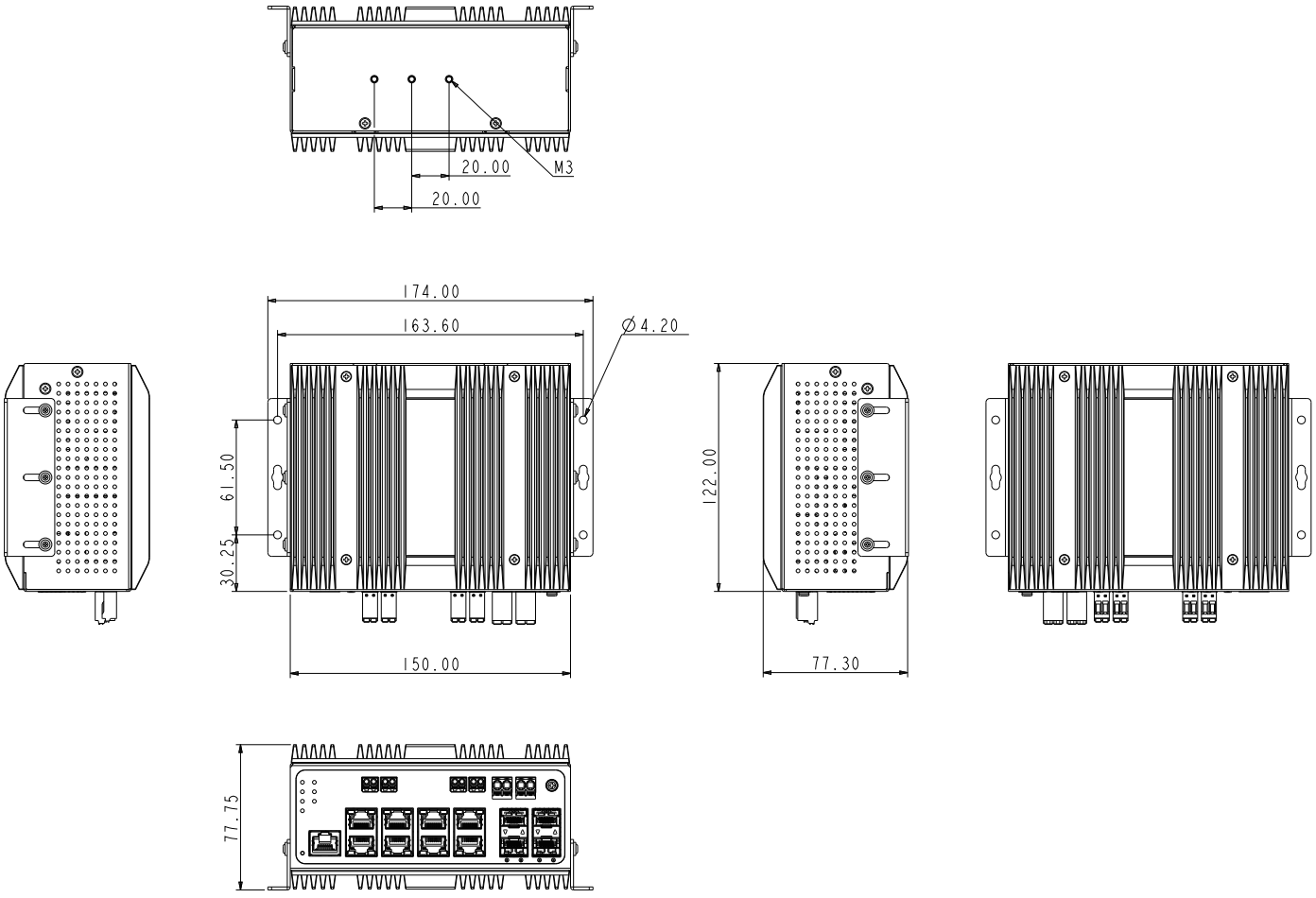
## Specifications - Software

| | D62-084-MX-DCP |
|---|---|
| **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 | 2 |
| Gigabit Ethernet 802.3af/at/bt/PoH PoE Ports | 4 |
| Gigabit Ethernet Passive PoE Ports<br>(Adjustable 24V/56V DC Passive PoE or 802.3af PoE) | 2 |
| 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)<br>PoE IEEE 802.3af (Max. 15.4W)<br>PoE+ IEEE 802.3at (Max. 30W)<br>PoE++ IEEE 802.3bt/PoH (Max. 90W)<br>(Port 5-6)<br>PoE IEEE 802.3af (Max. 15.4W)<br>PoE+ IEEE 802.3at (Max. 30W) |
| Output PoE Power Pin Assignment | at: 12(+), 36(-)<br>bt: 12(-), 36(+), 45(+), 78(-) |
| Adjustable output passive PoE or af PoE Port | (Port 7-8)<br>18W @ 2-pair 24V DC<br>36W @ 4-pair 24V DC<br>45W @ 2-pair 56V DC<br>90W @ 4-pair 56V DC<br>PoE IEEE 802.3af (Max. 15.4W)<br>PoE+ IEEE 802.3at (Max. 30W) |
| Output Passive PoE Power Pin Assignment | 2-pair PoE: 45(+), 78(-)<br>4-pair PoE: 12(+), 36(-), 45(+), 78(-) |
| Output Power per DC Port | 1 x 12V DC@2A<br>1 x 24V DC@1A |
| Standby Power Consumption | 12V DC: 5.28W<br>24V DC: 5.76W<br>48V DC: 5.78W |
| Total Output Power Budget | 12V DC: 100W<br>24V DC: 200W<br>48V DC: 400W |
| Power Efficiency | 12V DC: 91.22%<br>24V DC: 95.41%<br>48V DC: 96.94% |
| 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 : ±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 | 1.84 kg (4.06 lb) |
| DI | Dry Contact:<br>Logic level 1: Close to GND<br>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 |

## Specifications - Software

| | D62-084-MX-DCP |
|---|---|
| **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<br>DRL-48V240W1EN : 48V/240W<br>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

### Jounction Box

JB-200
Junction Box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