# D40-DC series

## Industrial Gigabit PoE Switches w/ 12~56VDC Input



**802.3at** End-span **802.3af**

**°C** -40~75°C

**60W/90W PoE**

**30W PoE**

**Fiber-Optical**

**Full Ports Gigabit**

**Plug & Play**

The D40 series of **Harden-Graded Industrial Unmanaged PoE Switches** are designed with IP30 and operation temperature between -40°C and 75°C during harsh weather conditions.
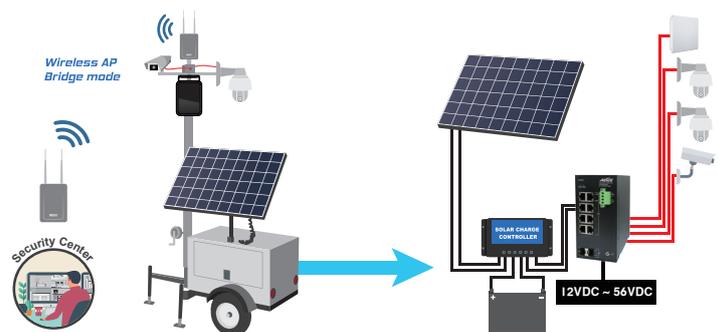
Besides enabling connections of PoE af/at PDs, D40-044-91-DC is specially designed for latest PoE bt PoE(>25.5W) PDs such as IR PTZ cameras, multi-sensor cameras, and long range PoE applications.

The D40 series provide multi-port Gigabit PoE (10M/100M/1G) delivering data and power to PoE PDs over a single network cable as well as additional SFP transceiver slots for flexible uplink. The D40 series has three sub-models classified as easy-to-install power source equipment (PSE) and provide power up to 30W/60W/90W per port.

## Features

- 30W per port IEEE802.3at compliant
  (D40-044-30-DC / D40-082-30-DC)
- IEEE 802.3 bt 90W PoE (D40-044-91-DC)
- Operating temperature between -40°C and 75°C
- Flexible SFP transceiver ports for uplink
- Supporting 10/100/1000Mbps data rates
- DIN-Rail mounting and wall mounting
- IP30 rating
- IEEE 802.3az Energy Efficient Ethernet standard for green power

## PoE bt/PoH PoE IR PTZ Camera Applications

# Specifications

| | D40-044-30-DC | D40-044-91-DC | D40-082-30-DC |
|---|---|---|---|
| **Networking Specifications** | | | |
| Total Gigabit Ports | 8 | 8 | 10 |
| Gigabit PoE Port (10M/100M/1G) | 4 x 30W PoE | 4x 90W bt PoE | 8 x 30W PoE |
| 30W IEEE802.3 at Power over Ethernet | Support | Support | Support |
| 90W IEEE802.3 bt Power over Ethernet | - | Support | - |
| Gigabit SFP Slots | 2 | 2 | 2 |
| Gigabit Ports (RJ45) | 2 | 2 | - |
| Forwarding Capacity | 11.904Mpps | 11.904Mpps | 14.88Mpps |
| Mac Table | 4k | 4k | 4k |
| Jumbo Frames | 9,216 Bytes | 9,216 Bytes | 9,216 Bytes |
| Switching Capacity | 16 Gbps | 16 Gbps | 20 Gbps |
| **Power Specifications** | | | |
| Power 1 : Input Voltage | 12VDC ~ 56VDC | 12VDC ~ 56VDC | 12VDC ~ 56VDC |
| Power 2 : Input Voltage | 12VDC ~ 56VDC | 12VDC ~ 56VDC | 12VDC ~ 56VDC |
| Output Voltage Range / per PoE Port | 48~56 VDC PoE 802.3af (15.4W)output PoE+ 802.3at (30W) output | 54~56 VDC PoE 802.3af (15.4W)output PoE+ 802.3at (30W) output PoE++ 802.3bt (90W) output | 48~56 VDC PoE 802.3af (15.4W)output PoE+ 802.3at (30W) output |
| PSE Power Pin Assignment | 12(+), 36(-) | 12(-),36(+),45(+),78(-) | 12(+), 36(-) |
| Switch power consumption (without PoE) | 3W | 3W | 3W |
| PoE Power Budget | 12VDC:90W 24VDC:120W 48VDC:120W | 12VDC:90W 24VDC:160W 48VDC:360W | 12VDC:90W 24VDC:160W 48VDC:240W |
| **Mechanical Specifications** | | | |
| Dimensions (L x W x H) | 72 x 122 x 150 mm | 72 x 122 x 150 mm | 72 x 122 x 150 mm |
| Weight | 0.75KG | 0.84KG | 0.765KG |
| Connectors | RJ45 x 6, SFP x 2, Terminal Black x2 | RJ45 x 6, SFP x 2, Terminal Black x2 | RJ45 x 8, SFP x 2, Terminal Black x2 |
| **Environmental Specifications** | | | |
| Operating Temperature | -40°C~ 75°C (-40°F~ 167°F ) | -40°C~ 75°C (-40°F~ 167°F ) | -40°C~ 75°C (-40°F~ 167°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 ) |
| Operating Humidity | 5% ~ 95% non-condensing | 5% ~ 95% non-condensing | 5% ~ 95% non-condensing |
| **Certifications** | | | |
| EMC | CE, FCC, VCCI, C-Tick | CE, FCC, VCCI, C-Tick | CE, FCC, VCCI, C-Tick |
| Safety | EN62368-1 | EN62368-1 | EN62368-1 |

# Ordering Information

**D40-044-30-DC**
- 4xGbE 30W PoE + 2xGbE SFP + 2xGbE RJ45
- 12~56VDC Input

**D40-082-30-DC**
- 8xGbE 30W PoE + 2xGbE SFP
- 12~56VDC Input

**D40-044-91-DC**
- 4x90W bt PoE + 2xGbE SFP + 2xGbE RJ45
- 12~56VDC Input

# 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

# Power Supplies

| Industrial Power Supply | | |
|---|---|---|
| **NDR-120-48** | **NDR-240-48** | **NDR-480-48** |
| Indoor Industrial Din Rail Power Supply, 48~55VDC/120W, -20°C ~ 70°C | Indoor Industrial Din Rail Power Supply, 48~55VDC/240W, -20°C ~ 70°C | Indoor Industrial Din Rail Power Supply, 48~55VDC/480W, -20°C ~ 70°C |

| Industrial Power Supply | | |
|---|---|---|
| **DRL-48V120W1EN** | **DRL-48V240W1EN** | **DRL-48V480W1EN** |
| Indoor Industrial Din Rail Power Supply, 48V/120W | Indoor Industrial Din Rail Power Supply, 48V/240W | Indoor Industrial Din Rail Power Supply, 48V/480W |

# Outdoor Cabinet

| Cabinet Housing |
|---|
| **JB-200** |
| • IP67, IK10 <br> • M16x4 pcs, M25 x2pcs |

# Cabinet Brackets

| Pole Mount Brackets | | Corner Mount Bracket |
|---|---|---|
| **AT-100** | **AT-101** | **AT-200** |
| Pole Mount Adapter | Pole Mount Adapter | Corner Mount Adapter |