

DW541-E

4-Port 10/100TX + 1 10/100TX uplink with 4 PoE Injector

Industrial Switch

- Complies with IEEE 802.3at+ PoE Standard
- Redundant power supply with overload current protection
- Wide operating temperature range from -40°C to 75°C
- High power model provides up to 30W power output per port



OVERVIEW

The DW541-E is a 4-port 10/100TX +1 10/100TX uplink with 4 PoE Hi power booster Injector Industrial PoE Switch for plug-and-play installation. This slim switch is designed with Wall-mountable or DIN rail mountable, making installation more easy.

Besides redundant power supply with overload current protection, . Featured with relay contact to alarm system function, the DW541-E can immediately notify of power failure event.

The DW541-E is designed to meet with critical network environment with IP 30 enclosure and test under extensive

Industrial EMI and Safety standards. It also passed stability testing such as free fall, shock and vibration.

The DW541-E is the best Industrial switch to connect with IP Camera, Wireless Equipments where are placed outdoor or in tight space cabinet. The DW541-E can be used in extreme environments with an operating temperature range of -40°C to 75°C.

The DW541-E is the high power model which provides higher power output up to 30W per port for devices that require higher power supply.

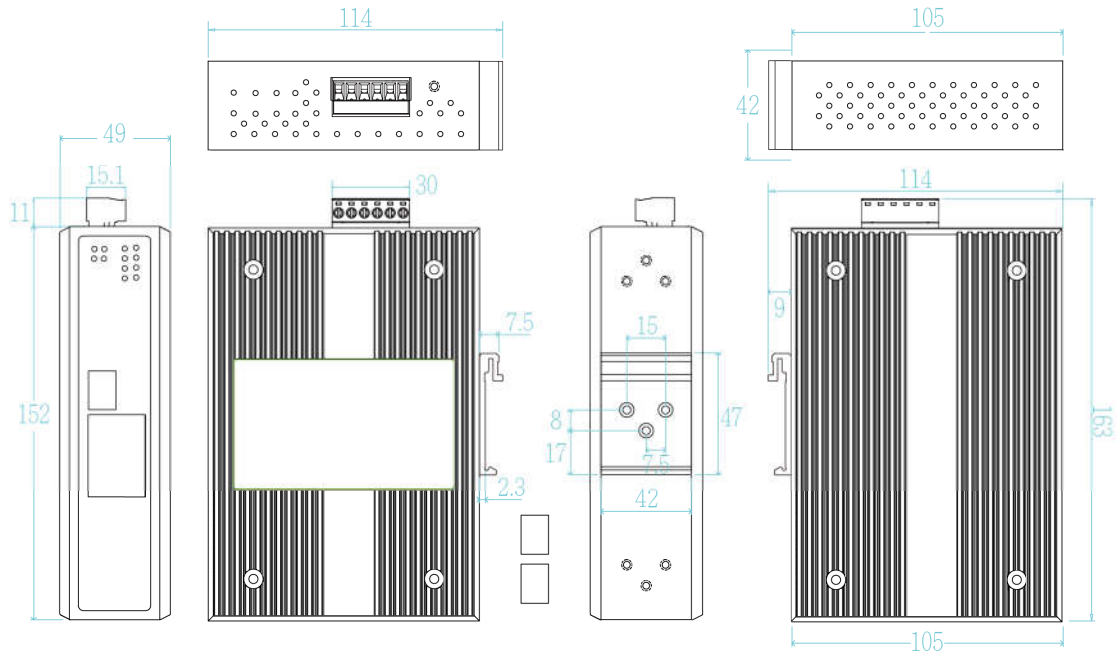
FEATURES & BENEFITS

- **System Interface/Performance**
 - RJ-45 port support Auto MDI/MDI-X Function
 - Embedded 4-port PoE Injector Function
 - Store-and-Forward Switching Architecture
 - Back-plane (Switching Fabric): 1.6Gbps
 - 1K MAC address table
- Supports Wide Operating Temperature (-40°C~75°C)
- IP-30 Metal Housing with DIN Rail and Wall Mount Design
- DC 48V Redundant Power
- Wide voltage input from 24V~54V Support by DW541-BE
- Polarity reverse protection & removable terminal block

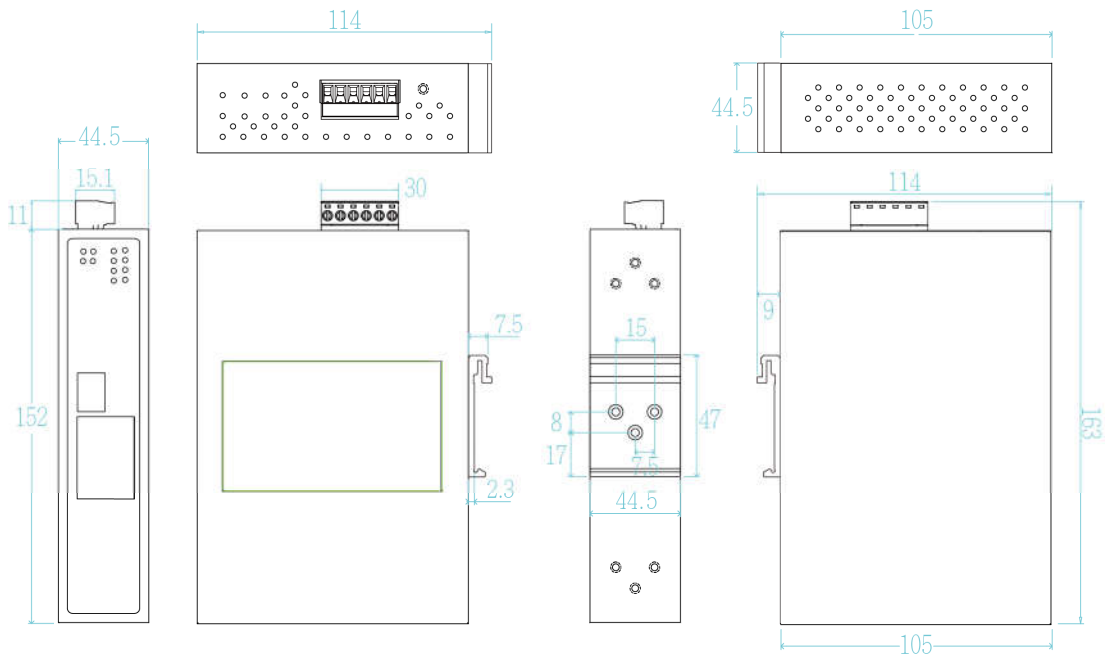
DIMENSIONS

DW541-BE

Industrial Un-managed Switch/PoE Series



DW541-B/ DW541-E/ DW541



SPECIFICATION

IEEE Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure IEEE 802.3at+ PoE specification	Processing	Store-and-Forward
Switch Properties	Back-plane (Switching Fabric): 1.6Gbps Packet throughput ability (Full-Duplex): 1.488Mpps @64bytes	Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5, 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5, 6 cable EIA/TIA-568 100-ohm (100m)
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	PoE pin Assignment	RJ-45 port #1 - #4 support IEEE 802.3at End-point, Alternative A mode. Positive (VCC+): RJ-45 pin 1,2 Negative (VCC-) : RJ-45 pin 3,6 Data (1,2,3,6)
Connectors	10/100TX: 5 x RJ-45 with auto MDI/MDI-X function Support 4 PoE injector function	Protocol	CSMA/CD
MAC Address	1024 MAC addresses		

Datasheet Version 1.1

Industrial Un-managed Switch/PoE Series

Case Dimension	Metal case, IP-30;	Operating Temperature	-40°C~75°C / -40°F~167°F
	36.2mm(W)x105mm(D)x142mm(H)	Storage Temperature	-40°C~85°C / -40°F~185°F
Weight	648g	EMI	FCC Class A
LED	Power Indicator Green LED x 2 10/100Base-T(X) RJ45 port indicator Green for port Link/Act. Amber for Duplex/Collision	EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 EN61000-6-2 EN61000-6-2
Power Supply	48VDC (44~56VDC) for DW541-E, 12V~48VDC for DW541-BE Redundant power with polarity reverse protect function and removable terminal block	Stability Testing	IEC60068-2-31 (Drop off) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)
PoE Power	POE power per port 30watts. Maximum 36Watts Maximum total power 200Watts, Supports IEEE802.3af/at	MTBF	510304 hrs
Consumption	5.76 Watts (Full load: Only Ethernet)	Warranty	2 years
Overload Current	Present		
Reserve Polarity	Present		
Operating Humidity	5% to 95% Non-condensing		

*Future Release
**Optional

ORDERING INFORMATION

- **DW541**
4 10/100TX+1 10/100TX uplink w/4 PoE Injector Industrial Switch; Power input 48V DC; -20°C~60°C
- **DW541-E**
4 10/100TX+1 10/100TX uplink w/4 PoE Injector Industrial Switch; Power input 48V DC; -40°C~75°C
- **DW541-B**
4 10/100TX+1 10/100TX uplink w/4 PoE Injector Industrial Switch; Power input 24~48V DC; -20°C~60°C
- **DW541-BE**
4 10/100TX+1 10/100TX uplink w/4 PoE Injector Industrial Switch; Power input 12~48V DC; -40°C~75°C

OPTIONAL ACCESSORIES

DIN Rail Power

- **AD1048-24FS** 24VDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 18 Watts at 75°C.)
- **AD1024-24F** 24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 9 Watts at 75°C.)
- **AD1240-48S** 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1120-48F** 48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)