



## DW541T

**Rugged Design Industrial 4 port PoE Switch, 1 x 10/100M TX  
48VDC Power Input, Operating Temp: -40°C to +75°C**

### Models available:

- DW642TSC 4 port 10/100M POE+ Injector, with  
4x10/100MTX PSE(POE+), 10/100TX,  
100M SC
- DW642TSC-30 4 port 10/100M POE+ Injector, with  
4x10/100MTX PSE(POE+), 10/100TX,  
100M SC SM 30km
- DW642SC 4 port 10/100M POE+ Injector, with  
4x10/100MTX PSE(POE+), + 2 x 100M  
SC
- DW642SC-30 4 port 10/100M POE+ Injector, with  
4x10/100MTX PSE(POE+), + 2 x 100M  
SC SM 30km
- DW541T 4 port 10/100M POE+ Injector, with  
4x10/100MTX PSE(POE+), + 10/100TX



**ST, WDM fibers are also available**

DW541T

### Introduction

This rugged designed high power 4 port industrial POE+ Injector is equipped with our high efficiency ColdDesign technology which allows input voltage to meet IEEE802.3af/at standard, also reduce the excessive heat problem to a minimum. And it is also equipped with 2 port 100M fiber (optional models) that can be used as fiber redundancy, cascaded to your other devices to expand your network application. It is being rigorously tested for your Security, Transportation and Telco application.



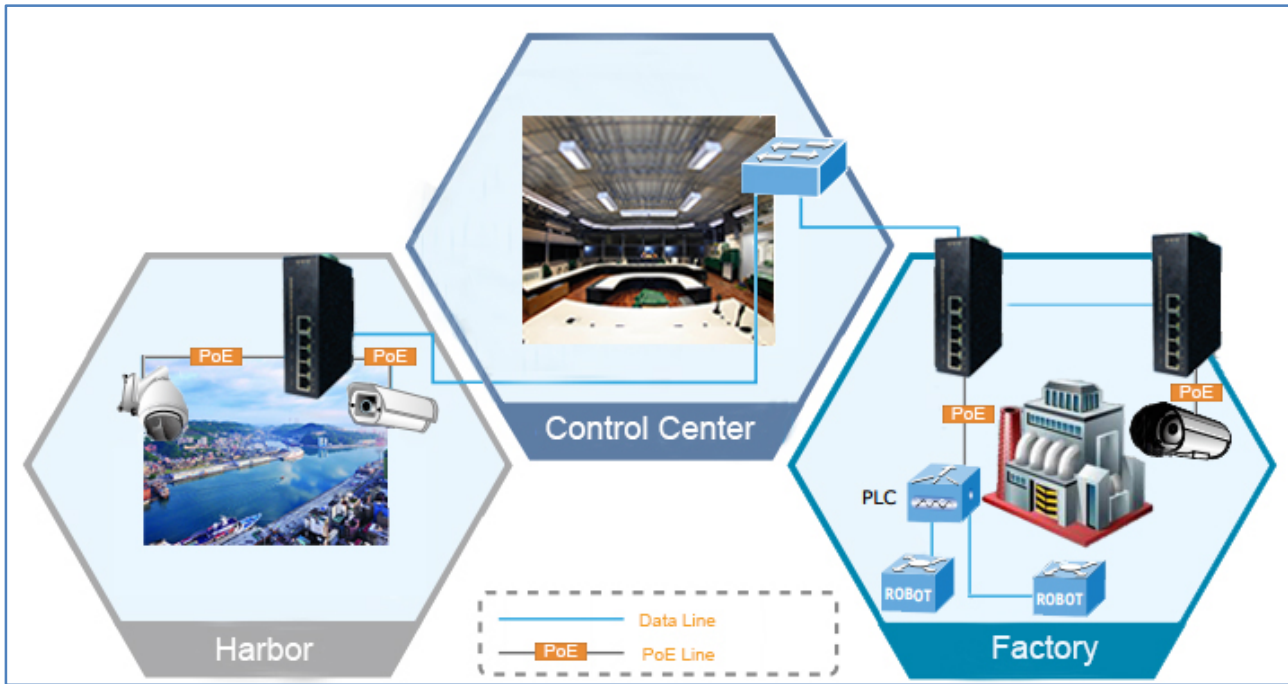
## Specification

<b>IEEE Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE802.3x Flow Control and Back Pressure, IEEE802.3af for POE IEEE802.3at for POE+
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 1Gbps
<b>Data Processing</b>	Store and Forward
<b>Flow Control:</b>	IEEE 802.3x Flow Control and Back Pressure
<b>Jumbo Frame</b>	9KB
<b>MAC address Table Size</b>	1K
<b>Packet Buffer Size</b>	1M
<b>Network Connector :</b>	5xRJ-45 10/100BaseT(X) auto negotiation, 4 10/100M POE+ 802.3at/af PSE port Auto MDI/MDI-X function, Full/Half duplex 1x 10/100BaseT
<b>Network Cable</b>	UTP/STP above Cat.5e Cable
	EIA/TIA-568 100-ohm (100m)
	Fiber Cable (Multi-mode):50/125um,62.5/125um Fiber Cable (Single-mode): 9/125um
<b>Protocol</b>	CSMA/CD
<b>LED</b>	PW1(Power 1) Green, PW2(Power 2) Green, ERR( Fault ) Amber,
	TX/RJ-45 port: LNK (Link/Active) Green, SPD(Speed) 10/100(OFF ) ,1000 (Green)
	POE port ON/OFF
<b>Reserve polarity protection</b>	Present
<b>Overload current protection</b>	Present
<b>Power Supply</b>	Redundant Dual DC 12V-55V Power Input, 44VDC-55VDC for POE
<b>Power Consumption</b>	3.76W@48 VDC full load, Without POE
<b>Alarm Relay Contact</b>	Relay outputs with current carrying capacity of 1 A @24VDC, Relay in short circuit mode when 2 powers are connected. in open circuit mode when only one power supply is connected
<b>POE power</b>	POE power per port 30watts at 48VDC input Maximum total power 120Watts



<b>Removable Terminal Block</b>	Provide 2 Redundant power, Alarm relay contact, 6 Pin Wire range: 0.34mm <sup>2</sup> to 2.5mm <sup>2</sup> Solid wire (AWG):12-24/14-22 Stranded wire (AWG): 12-24/14-22 Torque:5lb-In/0.5Nm/0.56Nm Wire Strip length: 7-8mm
<b>Operating Temperature</b>	-40°C~75°C fully tested.
<b>POE efficiency</b>	Voltage efficiency up to 97% from 48VDC to 55VDC.
<b>Surface temperature</b>	Surface temperature rises 6°C full load in a 75°C chamber
<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Storage Temperature</b>	-40°C~85°C
<b>MTBF (mean time between failure)</b>	1,510,304 hrs ( MIL-HDBK-217F) at 25°C
<b>Housing</b>	Rugged Metal ,IP30 Protection
<b>Case Dimension (W X D X H)</b>	142 x 43 x 105mm (LxWxD)
<b>Installation mounting</b>	DIN Rail mounting and Wall Mounting
<b>EMC/EMS</b>	CE, FCC
<b>EMI</b>	FCC Part 15 Subpart B Class A, CE EN 55022 Class A

## Applications



## Housing Dimension

