

## D6042SC

Rugged Design Industrial 6 port Fast Ethernet Switch, with 4 x 10/100M TX + 2 100M MM SC 2km, wide voltage input range from 9-56VDC, Operating temp: -40°C to +75°C

### Models also available:

D6042TSC	6 port 10/100M Industrial Ethernet Switch, with 5x10/100M TX+100M SC MM 2km
D6042TSC-30	6 port 10/100M Industrial Ethernet Switch, with 5x10/100M TX+100M SC SM 30km
D6042T	6 port 10/100M Industrial Ethernet Switch, with 6x10/100M TX
D6042SC	6 port 10/100M Industrial Ethernet Switch, with 4x10/100M TX+2 x 100M SC MM 2km
D6042SC-30	6 port 10/100M Industrial Ethernet Switch, with 4x10/100M TX+2 x 100M SC SM 30km
D6041T	5 port 10/100M Industrial Ethernet Switch, with 5x10/100M TX
D6041SC	5 port 10/100M Industrial Ethernet Switch, with 4x10/100M TX+1 x 100M SC MM 2km
D6041SC-30	5 port 10/100M Industrial Ethernet Switch, with 4x10/100M TX+1 x 100M SC SM 30km



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## Introduction

This rugged designed Industrial 6 port Fast Ethernet Switch is equipped with our high efficiency ColdDesign technology which not only meet IEEE standard, also reduce the excessive heat problem to a minimum. And it is also equipped with optional 2 ports 100M fiber 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
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 1.2Gbps
<b>Data Processing</b>	Store and Forward
<b>Flow Control:</b>	IEEE 802.3x Flow Control and Back Pressure
<b>MAC address Table Size</b>	1K
<b>Packet Buffer Size</b>	1M
<b>Network Connector :</b>	4xRJ-45 10/100BaseT(X) auto negotiation, 2 FX MM SC 2km Auto MDI/MDI-X function, Full/Half duplex
<b>Network Cable</b>	UTP/STP above Cat.5e Cable
	EIA/TIA-568 10-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, SW( Relay) Amber,
	TX/RJ-45 port: Green --- LNK (Link/Active) Amber --- POE link
	FX Fiber port: 2
<b>Reserve polarity protection</b>	Present
<b>Overload current protection</b>	Present
<b>Power Supply</b>	Redundant Dual DC 9V-56V Power Input,
<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 open circuit mode when 2 powers are connected. In short circuit mode when only one power supply is connected
<b>POE power</b>	POE Input Voltage: N/A

<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>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Storage Temperature</b>	-40°C~85°C
<b>MTBF (mean time between failure)</b>	510,304 hrs ( MIL-HDBK-217F) at 25°C
<b>Housing</b>	Rugged Metal ,IP30 Protection
<b>Case Dimension (L x W x D)</b>	142mmx36.2mmx105mm (LxWxD)
<b>Installation mounting</b>	DIN Rail mounting and Wall Mounting
<b>Certificates:</b>	
<b>EN55022/24</b>	ITE equipment
<b>EN50155</b>	Railways Applications Electronic Equipment used on Rolling Stock
<b>EN55011</b>	Industrial, Scientific and Medical (ISM) equipment
<b>EN50121-3-2</b>	Railway Applications – Electromagnetic Compatibility – Part 3-2 Rolling Stock - Apparatus
<b>EN50121-4</b>	Railway Applications – Electromagnetic Compatibility – Part4 Emissions and Immunity of the Signaling and Telecommunications Apparatus
<b>Safety</b>	IEC EN60950-1
<b>EMC/EMS</b>	CE, FCC, VCCI
<b>EMI</b>	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
<b>EN 50155 / EN 60068-2-6</b>	Vibration
<b>EN 50155 / EN 60068-2-27</b>	Shock
<b>EN 50155 / EN 60068-2-32</b>	Free Fall

# Housing Dimension

