distelco

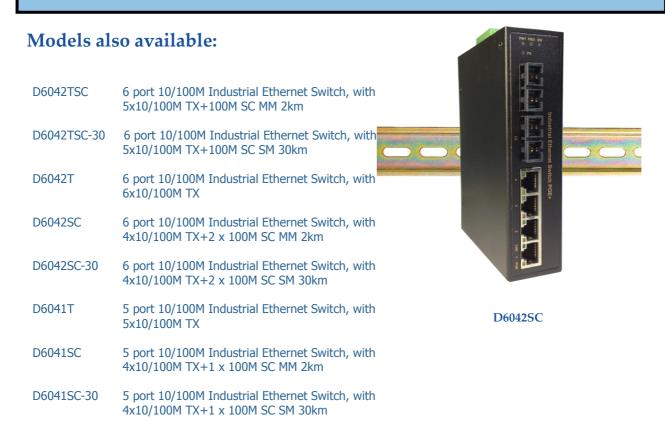**D**igital **I**ntegrated **S**olutions for **Tel**ecommunication and **Co**ntrol

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

D6042SC

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.

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Specification

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE802.3x Flow Control and Back Pressure
Switch Architecture	Back-plane (Switching Fabric): 1.2Gbps
Data Processing	Store and Forward
Flow Control:	IEEE 802.3x Flow Control and Back Pressure
MAC address Table Size	1K
Packet Buffer Size	1M
Network Connector :	4xRJ-45 10/100BaseT(X) auto negotiation, 2 FX MM SC 2km Auto MDI/MDI-X function, Full/Half duplex
Network Cable	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
Protocol	CSMA/CD
LED	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
Reserve polarity protection	Present
Overload current protection	Present
Power Supply	Redundant Dual DC 9V-56V Power Input,
Power Consumption	3.76W@48 VDC full load, Without POE
Alarm Relay Contact	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
POE power	POE Input Voltage: N/A

Removable Terminal Block	Provide 2 Redundant power , Alarm relay contact ,6 Pin Wire range: 0.34mm^2 to 2.5mm^2 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
Operating Temperature	-40℃~75℃ fully tested.
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40℃~85℃
MTBF (mean time between failure)	510,304 hrs (MIL-HDBK-217F) at 25°C
Housing	Rugged Metal ,IP30 Protection
Case Dimension (L x W x D)	142mmx36.2mmx105mm (LxWxD)
Installation mounting	DIN Rail mounting and Wall Mounting

Certificates:

EN55022/24	ITE equipment
EN50155	Railways Applications Electronic Equipment used on Rolling Stock
EN55011	Industrial, Scientific and Medical (ISM) equipment
EN50121-3-2	Railway Applications – Electromagnetic Compatibility – Part 3-2 Rolling Stock - Apparatus
EN50121-4	Railway Applications – Electromagnetic Compatibility – Part4 Emissions and Immunity of the Signaling and Telecommunications Apparatus
Safety	IEC EN60950-1
EMC/EMS	CE, FCC, VCCI
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
EN 50155 / EN 60068-2-6	Vibration
EN 50155 / EN 60068-2-27	Shock
EN 50155 / EN 60068-2-32	Free Fall

Housing Dimension

36.20

9.23 105 9

25.40 18.79

142

142

30

44

48.50

49.50

123.23

142