Ruggedized Ethernet Switches

Catalog Numbers GCL-D6041AT and GCL-D6042ASC

General Description

These industrial-grade Ethernet switches enable you to expand your industrial networks fast and cost-effectively. The ruggedized design assures high reliability and stability in harsh environments.

These rugged designed Industrial 5 and 6 port Fast Ethernet Switches are equipped with high efficiency ColdDesign technology which not only meets IEEE standard, it also keeps excessive heat problems to a minimum.

They offer a 9V-56V redundant dual power input design. The switches are packaged in a compact metal housing with IP30 rating to protect against dusty environments. Both DIN Rail and wall mount are available.

Each port has 2 LED's which show the link status transmission speed and collision status. It also provides a relay output for an event alarm. In the event of a power failure, the built-in LED will activate the alarm to notify administrators. Engineers can simply verify the hardware status by checking the LED, making troubleshooting easy and quick.

The GCL-D6042ASC is equipped with 2 100FX multi-mode fiber ports that can be used for fiber redundancy or cascaded to your other devices to expand your network application.

General Features

- Fast Ethernet Ports with Auto MDI/MDI-X function
- CSMA/CD Protocol
- Redundant Dual DC input range from 9V-56V
- Operating temperature: -40ºC to +75ºC
- Din Rail and Wall mount supported
- Packaged in an IP30 rated rugged metal housing
- GCL-6041AT: 5 ports Fast 10/100M
- GCL-D6042ASC: 4 ports Fast 10/100M + 2 ports 100FX MM fiber

GCL-D6041AT

GCL-D6042ASC

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Specifications	GCL-D6041AT	GCL-D6042ASC
Interface		
Ports	5xRJ-45 10/100BaseT (X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex	4xRJ-45 10/100BaseT (X) auto negotiation, 2 FX MultiMode SC connectors, 2km Auto MDI/MDI-X function, Full/Half duplex
LEDs	PW1 (Power 1) Green PW2 (Power 2) Green ERR (Fault) Amber TX/RJ-45 ports: LNK (Link/Active) Green, Flash TX/RX data	PW1 (Power 1) Green PW2 (Power 2) Green SW (Relay) Amber FX Fiber and TX/RJ-45 ports: LNK (Link Active) Green, Flash TX/RX data
Communications		
IEEE Standard	IEEE 802.3 10Base-T Ethernet, IEEE 802.3u 100Base-TX Fast Ethernet, IEEE 802.3x Flow Control and Back Pressure, IEEE 802.3u 100Base-FX Fast Ethernet (GCL-D6041AT only)	
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	
Switch Specification		
Switch Architecture	Back-plane (Switching Fabric): 1.2Gbps, Store and Forward Processing	
Size	1M Packet Buffer and IK MAC Address Table	
Flow Control	IEEE 802.3x Flow Control and Back Pressure	
Power / Protection		
Power Consumption	3.76W@48 VDC full load	
Power Supply	Redundant Dual DC 9V-56V Power Input	
Protection	Reverse Polarity, Overload Current	
Alarm Relay Contact	Relay output 1 A @24 VDC	
Mechanical		
Case Dimensions (L x W x D)	142mm x 36.2mm x 105mm	
Installation Mounting	DIN Rail mounting and Wall mounting	
Storage Temperature	-40ºC~85ºC	
Housing	Rugged Metal, IP30 Protection	
MTBF	510,304 hrs (MIL-HDBK-217F) at 25ºC	
Operating Temperature	-40ºC~75ºC fully tested	
Operating Humidity	5% - 95% (non-condensing)	
Removable Terminal Block	6 Pin: (2) Redundant power, Alarm relay contact Wire range: 0.34mm^2 to 2.5mm^2, Solid wire (AWG): 12-24/14-22, Stranded wire (AWG): 12-24/14-22, Torgue: 5lb-In/0.5Nm/0.56Nm, Wire strip length: 7-8mm	
Certificates		
FCC Part 15 Subpart B Class A, CE EN 55022 Class A (EMI) ITE Equipment (EN55022/24) Railways Applications Electronic Equipment used on Rolling Stock (EN50155) Industrial, Scientific and Medical (ISM) Equipment (EN55011) Railway Applications-Electromagnetic Compatibility-Part 3-2 Rolling Stock-Apparatus (EN50121-3-2) Railway Applications-Electromagnetic Compatibility-Part 4 Emissions and Immunity of the Signaling and Telecommunications Apparatus (EN50121-4) IEC EN60950-1 (SAFETY), CE, FCC (EMC/EMS) EN 50155 / EN 60068-2-6, EN 50155 / EN 60068-2-27, EN 50155 / EN 60068-2-32 (VIBRATION, SHOCK, FREEFALL)		

Ordering Information	
GCL-6041AT	5-port Fast 10/100M Industrial Ethernet Switch, with 5x10/100m TX
GCL-D6042ASC	6-port Fast 10/100M Industrial Ethernet Switch, with 4x10/100M TX+2 x 100M SC MM 2km