Carat55-D2GF8GT-D3

10-Port DIN-Rail Layer 2 Industrial Ethernet Switch

Features



- 2 x gigabit SFP slots, 8 x 10/100/1000Base-T(X) ports
- Supports 18~72VDC redundant power input with relay alarm output
- high-strength aluminum alloy sealed housing structure shock resistant vibration,rugged and durable
- industrial fanless dust-proof design stable and reliable,suitable for long-term operation Supports
- AutoSniffer device management software for intelligent industrial network management

RoHS CE FC IP40 IRIS Certification

Product Overview

Carat55-D2GF8GT-D3 managed DIN-Rail Layer 2 industrial Ethernet switch is designed for network communication in industrial fields such as smart city, new energy, intelligent transportation and industrial automation. It is suitable for industrial field environments with stringent requirements, providing highly reliable industrial network connection solutions for various industrial application sites.

Carat55-D2GF8GT-D3 adopts store-and-forward Switching Characteristics,providing 8x10/100/1000Base-T(X) RJ45 ports and 2 x gigabit SFP slots.

Carat55-D2GF8GT-D3 Supports CLI, Telnet, SNMP, SSH, and Web-based network management; supports Layer 2 switching features including VLAN, IGMP Snooping, LACP, QoS.

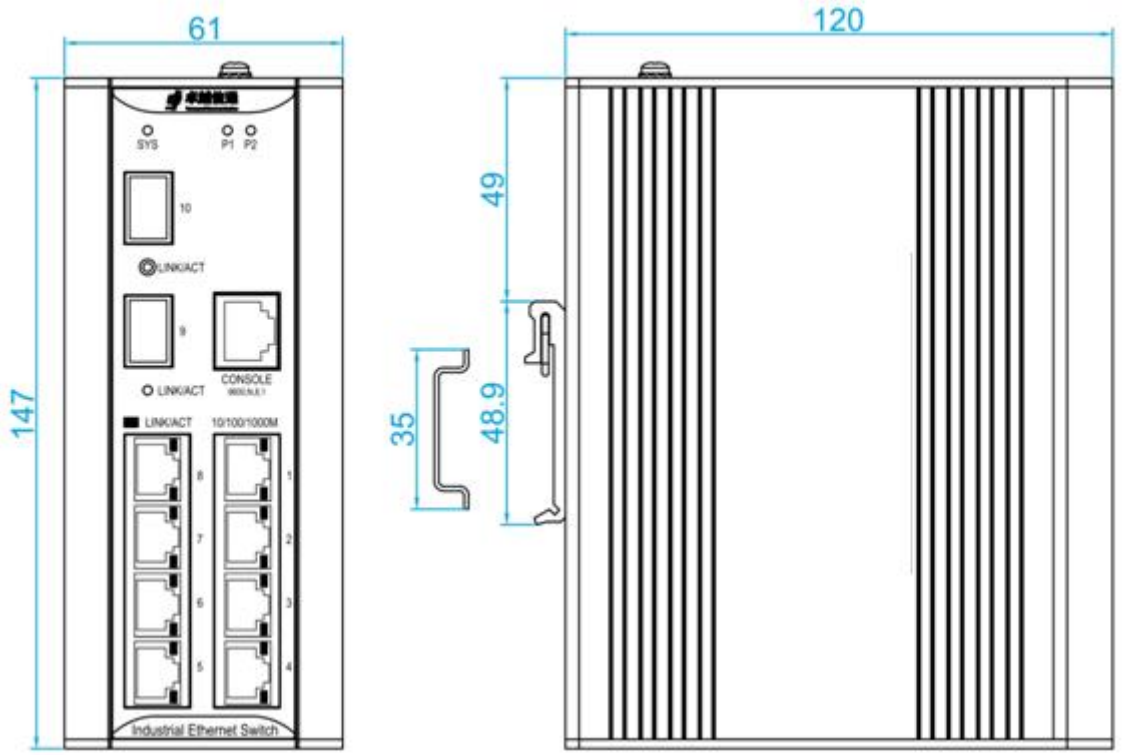
Specifications

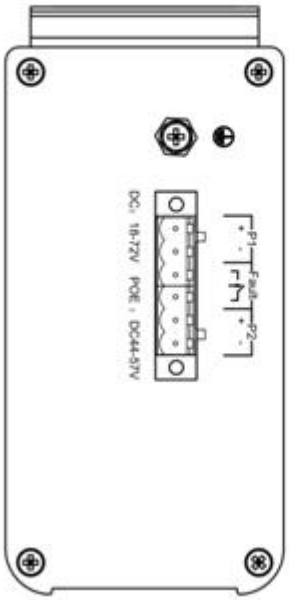
Standards Compliance	
Standard	IEEE 802.3i(10Base-T) IEEE 802.3u(100Base-TX) IEEE 802.3ab(1000Base-T) IEEE 802.3z(1000Base-SX/LX) IEEE 802.3ad (Link Aggregation) IEEE 802.3x (Flow Control) IEEE 802.1p (Priority) IEEE 802.1Q(VLAN) IEEE 802.1d(STP) IEEE 802.1w(RSTP)
Switching Properties	
Switching Characteristics	Store and Forward
Switching Capacity	20Gbps
Packet Forwarding Rate	14.88Mpps
Cache Capacity	4.1Mbit
MAC Address Table	8K
Switching delay	<10μs
Port Performance	
Electrical Ports	8 x 10/100/1000Base-T(X) ports, auto flow control, full/half duplex mode, MDI/MDI-X adaptive
Optical Port	2 x gigabit SFP slots, LC
Management Port	1 x Console port (RS-232), RJ45
LED Indicators	System (SYS), Power (P1, P2), Port (Link/ACT)
Key Features	
VLAN	Supports IEEE 802.1Q VLAN
Reliability	Supports STP, RSTP, MSTP, MRP Supports LACP load balancing Supports G.8032 ERPS ring protocol Supports loopback detection
Security	Supports port rate limiting Storm control (bps and pps)
Multicast	Supports IGMP v1/v2 snooping, IGMP Fast Leave
QoS	Supports ACL-based flow, VLAN ID, CoS, DSCP Supports DSCP, CoS/802.1p priority, 8 queues per port Supports SP, WRR queue scheduling

ACL	Supports IP ACL based on source/destination IP, IP protocol type, IP precedence, TCP/UDP port numbers Supports MAC ACL based on source/destination MAC, VLAN ID, CoS Supports IP+MAC combined ACL		
Management	Supports CLI Supports IPv4 HTTP Supports IPv4 FTP/TFTP Supports IPv4 SNTP/NTP Supports IPv4 SSH Supports IPv4 syslog Supports SNMPv1/v2c/v3 Supports MIB interface, Trap Supports dual image Supports LLDP		
Mechanical			
Dimensions	61mm x 120mm x 147mm (W x D x H)		
Weight	900g		
Mounting	DIN-Rail, optional wall-mount		
Other	IP40 protection, corrugated high-strength aluminum enclosure		
Electrical			
Input Voltage	24VDC (18~72VDC) redundant power input, overload and reverse polarity protection, 6-pin 5.08mm pitch terminal block (relay occupies 2 pins)		
Alarm port	1-channel relay alarm output, terminal block		
Wattage	<6.5W		
Environmental			
Operating Temperature	-40℃~75℃		
Storage Temperature	-40℃~85℃		
Relative Humidity	5%~95% (non-condensing)		
Certifications			
System Certification	ISO9001，ISO14001，ISO22163（IRIS）		
Product Certification	CE, FCC, Telecom Equipment Network Access License		
Safety	Compliant with EN60950, UL508		
EMC	EMI	FCC CFR47 Part 15B Class A, CE EN55032 Class A	
	EMS	ESD	EN61000-4-2
		RS	EN61000-4-3
		EFT	EN61000-4-4
		Surge	EN61000-4-5
		CS	EN61000-4-6
		PFMF	EN61000-4-8
Vibration	Compliant with IEC 60068-2-6		
Shock	Compliant with IEC 60068-2-27		

Free Fall	Compliant with IEC 60068-2-32
MTBF	MTBF > 500,000 hours

Dimensions





Ordering Information

Model	Description
Carat55-D2GF8GT-D3	DIN-Rail Layer 2 Industrial Ethernet Switch,2 gigabit SFP slots, 4 10/100/1000Base-T(X) ports,18-72VDCredundantpower input, protectionIP40
Carat55 Series Recommendations	
Carat55-D2GF4GT-D3	DIN-Rail Layer 2 industrial Ethernet switch, 2 gigabit SFP slots, 4 10/100/1000Base-T(X) ports, 18-72VDC redundant power input, IP40 protection
Carat55-D2GF8GT-D3	DIN-Rail Layer 2 industrial Ethernet switch, 2 gigabit SFP slots, 8 10/100/1000Base-T(X) ports, 18-72VDC redundant power input, IP40 protection

More Information

For more information about Transcend products, please visit our website or contact us via our email ： **info@transcendcom.com**

https://www.transcendcom.com

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