

Carat55-D4GF16GP-DP

DIN-Rail L2 Industrial Ethernet switch

Features

- 4 Gigabit port slots for fiber,16x100/1000 Adaptive TX
- TX supports IEEE 802.3at standard (PoE+)
- Recovery time of ring network < 20ms
- High strength aluminum alloy sealed shell structure
- Industrial grade fan free design, Suitable for long working hours
- Support AutoSniffer device management software















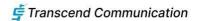




Product Overview

Carat55-D4GF16GP-DP managed DIN-Rail Layer 2 industrial Ethernet switch is a high-performance switch designed for rail transportation, industrial automation and other network communications in line with rail transit applications, in line with industry standards such as EN50155, EN50121 and other industry standards, and has obtained a number of certificates, such as CE, FCC, etc. It is suitable for use in harsh environments, and offers high-reliability industrial network connectivity solutions for different industrial applications. It is suitable for use in harsh operating environments and provides highly reliable industrial network connectivity solutions for different industrial applications.

Carat55-D4GF16GP-DP adopts store-and-forward switching method, providing 16 10/100/1000 Base-TX RJ45 ports, all TX ports support maximum 30W (802.3at standard) POE+ power supply, 4



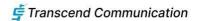
Gigabit SFP optical slots, providing full line speed non-blocking 1000M forwarding, providing full duplex under the IEEE802.3x flow control in full duplex and backpressure flow control in half-duplex mode.

Carat55-D4GF16GP-DP supports network management functions based on command line, Telenet, SNMP, SSH, Web page, etc. It also supports Virtual LAN (VLAN), Multicast Snooping (IGMP Snooping), Port Trunk, Port Security, Port Mirror, and Quality of Service (QoS). Supports Layer 2 switching functions such as virtual LAN (VLAN), IGMP Snooping, link aggregation (Port Trunking), port security, port mirroring, and quality of service (QoS)

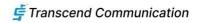


Specifications

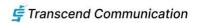
Compliances			
Standards	IEEE 802.3i(10Base-T) IEEE 802.3u(100Base-TX) IEEE 802.3ab(1000Base-T) IEEE 802.3ad (port aggregation) IEEE 802.3z(1000Base-SX/LX) IEEE 802.3x(Flow Control) IEEE 802.1p (Prioritization) IEEE 802.1Q (VLAN) IEEE 802.1d(STP) IEEE 802.1w(RSTP) IEEE 802.3af (POE) IEEE 802.3at (POE+)		
Switch Properties			
Mode	Store and forward		
Switching Capacity	56Gbps		
Forwarding Rate	29.76Mpps		
Date buffer	12Mbit		
MAC Address	16K		
Switching delay	<10µs		
Physical port			
Electric port	16 10/100/1000Base-TX ports, RJ45, automatic flow control, full/half duplex mode, MDI/MDI-X auto-detect, all TX support up to 30W (802.3at standard) POE+ power supply		
Optical Port	4 Gigabit SFP Optical Port Slots, LC		
network management port	1 Console Management Port (RS-232), RJ45		



LED Indicator	System indicator (SYS), Power indicator (P1,P2), Interface indicator (Link/ACT), POE indicator (POE)				
Main Features					
VLAN	Support Port-based VLAN Support IEEE802.1Q VLAN Support private VLAN Support Protocol VLAN Support Voice VLAN Support MAC VLAN Support common QinQ Support selectivity QinQ Support flexibility QinQ Support VLAN Translation Support N:1 VLAN Translation				
DHCP	Support IPv4/IPv6 DHCP Client Support Option 82、Option 37/38 Support IPv4/IPv6 DHCP Snooping、IPv4/IPv6 DHCP Server				
Reliability	Support STP, RSTP, MSTP Support multi process MSTP* Support LACP Support EMVTE (ULPP+ULSM) Support G.8032 (ERPS) Support Loopback detection, VCT, DDM Support ULDP				
Security	802.1x AAA Port, MAC-based authentication Accounting based on time length and traffic Guest VLAN and auto VLAN				
Multicast	Support IGMP v1/v2/v3 snooping、IGMP Fast leave Support MLD v1/v2 snooping Support multicast VLAN、 IPv4/IPv6 DCSCM				
QoS	8 Queues SP, WDRR, SWDRR Traffic Classification Based on 802.1p COS, ToS, DiffServ DSCP, ACL, port number Traffic Policing PRI Mark/Remark				
ACL	Supports IP ACL, matching based on source/destination IP, IP protocol type, IP priority, TCP/UDP source and destination port number and other fields Supports MAC ACL, matching based on source/destination MAC, VLAN ID, COS and other fields. Supports IP+MAC combination ACL Supports customized ACLs Supports ACLs that take effect according to the time period Supports port-based and VLAN-based ACL binding.				

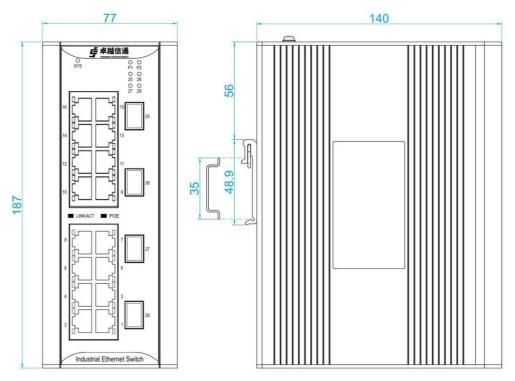


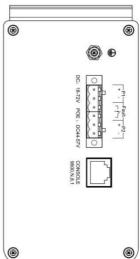
	Cummon	to ACL based radina	ation .			
	Supports ACL-based redirection					
	Supports traffic statistics analysis based on ACL matching.					
	Support CLI IPv4/IPv6 HTTP support					
	IPv4/IPv6 FTP/TFTP support					
	IPv4/IPv6 SNTP/NTP support					
	Support IPv4/IPv6 telnet username and password for radius authentication					
	Support SSH for IPv4/IPv6					
	Support Security IP security network management function					
Security Network	IPv4/IPv6 syslog support					
Management	SNMPv1/v2c/v3 support Support MIB interface, support Trap					
	Support RMON 1, 2, 3, 9 four groups Supports dual-IMG and multi-profile					
	Suppor		iditi prome			
		t port mirroring, RS	SPAN			
	Suppor	t sFlow flow monit	oring			
	Supports OAM					
	Suppor	Supports mirror sampling				
Mechanical						
Dimensions	77mm×	140mm×187mm(((W×D×H)			
Weight	1.58kg	1.58kg				
Installation	DIN-rail	mounting, Wall mo	ounting (with optional kit)			
Protection	IP40, Pleated high strength aluminum shell					
Electrical						
Input Voltage	48 VDC redundant					
Alarm port	Support 1-way relay alarm output, terminal					
Power		E<23W				
	POE: A	II PoE+ ports supp	ort 802.3at with max. 30W output power			
Working Environment						
Operating Temperature	-40°C~7	75℃				
Storage Temperature	-40°C~8	-40°C~85°C				
Relative Humidity	5%~95	% (Non condensin	g)			
Certifications						
System certification	ISO9001	, ISO14001, ISO2	2163 (IRIS)			
Standard certification	CE, FC	C, network access	license			
Safety	EN6095	0, UL508				
	EMI	FCC CFR47 Part 1	5B Class A, CE EN55032 Class A			
EMC		ESD	EN61000-4-2			
	EMS	RS	EN61000-4-3			
		EFT	EN61000-4-4			
		Surge	EN61000-4-5			



		CS	EN61000-4-6
		PFMF	EN61000-4-8
Vibration	Compliance with IEC 60068-2-6		
Shock	Compliance with IEC 60068-2-27		
Freefall	Compliance with IEC 60068-2-32		
MTBF	Mean Time Between Failure (MTBF) greater than 500,000 hours		

Physical Dimensions







Ordering Information

Model	Description			
Carat55-D4GF16GP-DP	*Industrial DIN-rail L2 managed full Gigabit PoE+ Ethernet switch			
	*4 x 1000BaseSFP slots + 16 x 10/100/1000BaseT(X) PoE+ ports			
	*All PoE+ ports support 802.3at with max. 30W output power			
	*48 VDC redundant power inputs			
	*IP40 protection level			
Carat 55 series products recommendation				
Carat55-D4GF8GT-D3	DIN-Rail Layer 2 Industrial Ethernet Switch, 4 Gigabit SFP Optical			
	Slots, 8 Gigabit TX, 18-72VDC Redundant Power Inputs, Protection			
	Class IP40			
Carat55-D4GF16GT-D3	DIN-Rail Layer 2 Industrial Ethernet Switch, 4 Gigabit SFP Optical			
	Slots, 16 Gigabit TX, 18-72VDC Redundant Power Input, IP40			
	Protection Rating			
Carat55-D4GF8GP-DP	DIN-Rail Layer 2 Industrial Ethernet Switch, 4 Gigabit SFP optical			
	slots, 8 Gigabit POE+ TX, 48VDC redundant power input, protection			
	class IP40			
Carat55-D4GF16GP-DP	DIN-Rail Layer 2 Industrial Ethernet Switch, 4 Gigabit SFP optical			
	slots, 16 Gigabit POE+ TX, 48VDC redundant power input, protection			
	class IP40			