

Carat55-D2GF8GP-DP

DIN-Rail L2 Industrial Ethernet switch

Features

- 2 Gigabit port slots for fiber, 8 100/1000 port adaptive TX
- TX supports IEEE 802.3at standard (PoE+)
- Recovery time of ring network < 20ms</p>
- High strength aluminum alloy sealed shell structure
- Industrial grade fan free design, Suitable for long working hours
- Support AutoSniffer device management software















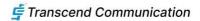




Product Overview

Carat55-D2GF8GP-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 highly reliable 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-D2GF8GP-DP adopts store-and-forward switching method, providing 8 10/100/1000



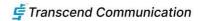
Base-TX RJ45 ports, all TX ports support maximum 30W (802.3at standard) POE+ power supply, 2 Gigabit SFP optical slots, providing full line speed non-blocking 1000M forwarding, providing full duplex under the IEEE802.3x flow control in full duplex and backpressure flow control in half-duplex mode.

Carat55-D2GF8GP-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). It supports Layer 2 switching functions such as virtual LAN (VLAN), IGMP Snooping, link aggregation (Port Trunk), port security, port mirroring, and quality of service (QoS).



Specifications

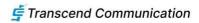
Compliances			
	IEEE 802.3i(10Base-T)		
	IEEE 802.3u(100Base-TX)		
	IEEE 802.3ab(1000Base-T)		
	IEEE 802.3ad (port aggregation)		
	IEEE 802.3z(1000Base-SX/LX)		
	IEEE 802.3x(Flow Control)		
Standards	IEEE 802.1p (Priority)		
	IEEE 802.1Q (VLAN)		
	IEEE 802.1d(STP)		
	IEEE 802.1w(RSTP)		
	IEEE 802.1s(MSTP)		
	IEEE 802.3af (POE)		
	IEEE 802.3at (POE+)		
Switch Properties			
Mode	Store and forward		
Switching Capacity	20Gbps		
Forwarding Rate	14.88Mpps		
Date buffer	4.1Mbit		
MAC Address	8K		
Switching delay	<10µs		
Physical port			
	8 10/100/1000Base-TX ports, RJ45, automatic flow control,		
Electrical port	full/half-duplex mode, MDI/MDI-X auto-detect, all TX support up to 30W		
	(802.3at standard) POE+ power supply		
Optical port	2 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	Supports port speed limiting Supports broadcast storm control based on message and byte counts Support port/MAC binding and MAC filtering Supports port-based and VLAN-based MAC count limitation Supports anti-ARP spoofing, anti-ARP scanning, ARP binding. Supports DHCP Snooping, ND Snooping. Supports DAI Supports standard IEEE 802.1x, extended IEEE 802.1x, Web Portal Supports TACACS+			
Multicast	Support IGMP v1/v2/v3 snooping、IGMP Fast leave Support MLD v1/v2 snooping Support multicast VLAN、 IPv4/IPv6 DCSCM			
QoS	Support based on ACL flow, VLAN ID, COS, TOS, DSCP Supports aggregated PolicyMap Supports port-based and VLAN-based PolicyMap binding Supports single speed, single bucket, two colors Supports DSCP, COS/802.1p priority, TOS and other field rewriting Supports 8 queues per port			

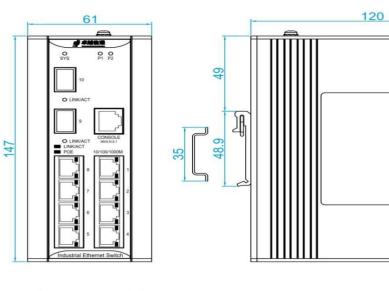


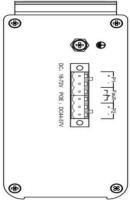
	Support SP, WRR queue scheduling algorithm			
	Supports matching IP sliced messages			
	Support based on ACL flow, VLAN ID, COS, TOS, DSCP			
	Supports aggregated PolicyMap			
	Supports port-based and VLAN-based PolicyMap binding			
ACL	Supports single speed, single bucket, two colors			
	Supports DSCP, COS/802.1p priority, TOS and other field rewriting			
	Supports 8 queues per port			
	Support SP, WRR queue scheduling algorithm			
	Supports matching IP sliced messages			
	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			
	Supports LLDP			
	Support port mirroring, RSPAN			
	Support sFlow flow monitoring			
	Supports OAM			
	Supports mirror sampling			
Mechanical				
Dimensions	61mm×120mm×147mm(W×D×H)			
Weight	900g			
Installation	DIN-rail mounting, Wall mounting (with optional kit)			
Protection	IP40,Pleated high strength aluminum shell			
Electrical				
Input Voltage	48VDC (44-57V) redundant power input, supports overload, reverse			
, J	connection protection, 6-pin 5.08mm pitch terminal block (relay occupies			
	2 positions)			
Alarm port	Support 1-way relay alarm output, terminal			
Power	Non-POE<6.5W			
	POE: Each TX supports up to 30W (802.3at standard) POE+ power supply.			
Working Environment				
Operating Temperature	-40°C~75°C			

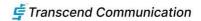


Storage Temperature	-40°C~85°C					
Relative Humidity	5%~95% (Non condensing)					
Certifications						
System certification	ISO9001, ISO14001, ISO22163 (IRIS)					
Standard certification	CE, FCC, network access license					
Safety	EN60950, UL508					
EMC	EMI	FCC CFR47 Part 15B Class A, CE EN55032 Class 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	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-D2GF8GP-DP	*Industrial DIN-rail L2 managed full Gigabit PoE+ Ethernet switch *2 x 1000BaseSFP slots + 8 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			
Carat 55 series products recommendation				
Carat55-D2GF4GT-D3	DIN-Rail Layer 2 Industrial Ethernet Switch, 2 Gigabit SFP Optical Slots, 4 Gigabit TX, 18-72VDC Redundant Power Inputs, Protection			
	Class IP40			
Carat55-D2GF8GT-D3	DIN-Rail Layer 2 Industrial Ethernet Switch, 2 Gigabit SFP optical slots, 8 Gigabit TX, 18-72VDC redundant power inputs, IP40 protection rating			
Carat55-D2GF4GP-DP	DIN-Rail Layer 2 Industrial Ethernet Switch, 2 Gigabit SFP optical slots, 4 Gigabit TX ports, all TX ports support up to 30W (802.3at standard) power supply, 48VDC redundant power input, IP40 protection rating			
Carat55-D2GF8GP-DP	DIN-Rail Layer 2 Industrial Ethernet Switch, 2 Gigabit SFP optical slots, 8 Gigabit TX ports, all TX ports support up to 30W (802.3at standard) power supply, 48VDC redundant power input, protection grade IP40			