

Carat10-D2GF8GP-DP

DIN-Rail unmanaged Industrial Ethernet switch

Features

- 2 x 1000BaseSFP slots + 8 x 10/100/1000BaseT(X) ports
- TX supports IEEE 802.3at standard (PoE+)
- 18-72VDC ultra-wide voltage redundant power inputs
- In the event of a power failure, a warning can be output through a relay
- Industrial fan-less design, suitable for long-time work



Product Overview

DIN-Rail unmanaged industrial Ethernet switch, Carat10-D2GF8GP-DP, is in line with rail transportation applications and designed for network communication in rail transportation and industrial automation, which complies with the industry standards such as EN50155 and EN50121, and has obtained many certificates such as CE, FCC, etc. It is suitable to be used in harsh working environments, and provides different industrial applications with a highly It is suitable for use in harsh operating environments and provides highly reliable industrial network connectivity solutions for different industrial applications.

Carat10-D2GF8GP-DP adopts store-and-forward switching method, 2 Gigabit SFP optical slots, which can provide 8 10/100/1000 Base-TX RJ45 ports, and all TX ports support POE+ power supply with max. 30W (802.3at standard).

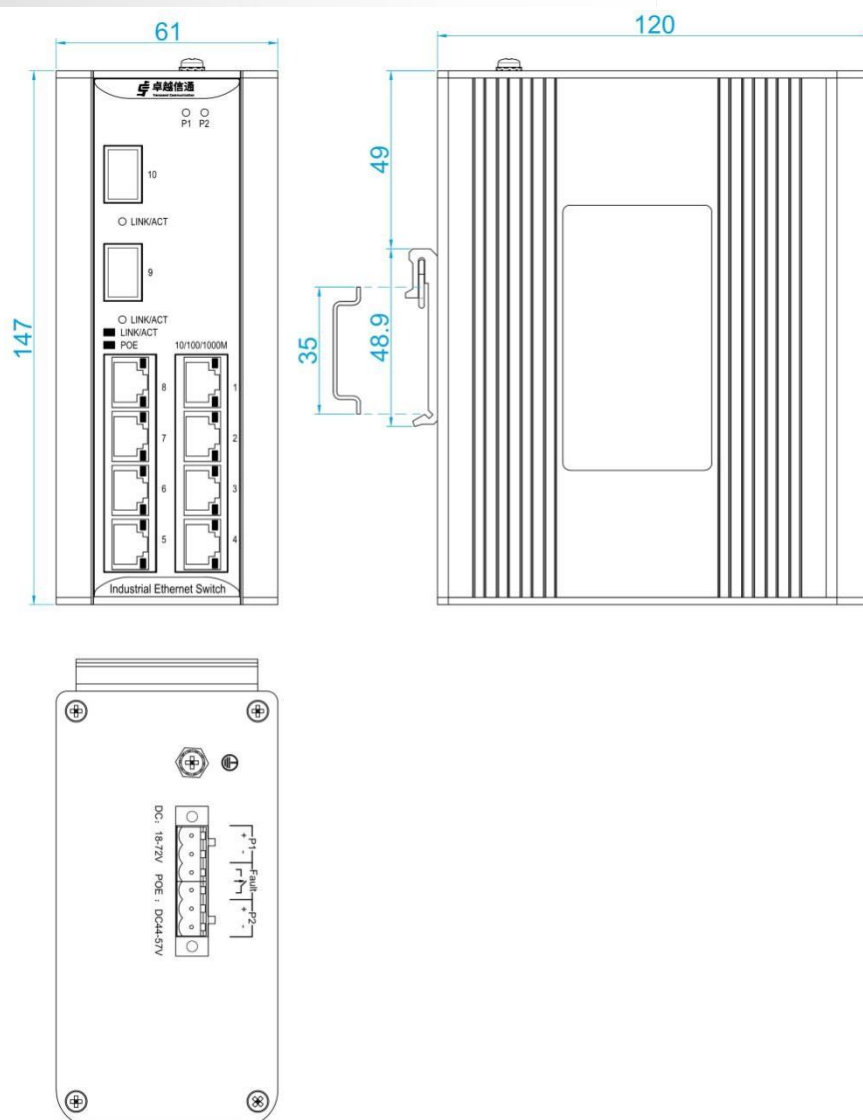
Carat10-D2GF8GP-DP is a high-strength metal pleated structure shell, can shield electromagnetic interference and anti-vibration and shock resistance, industrialized fanless design to avoid the reduction of failure points caused by fan stalling, in addition to the device occurs in the event of a power failure, through the built-in relay alarm function to the network administrator to send an alarm, to ensure that the product in a variety of harsh industrial environments in the long-term stability, Reliable and safe use of the product in various harsh industrial environments

Specifications

Compliances	
Standards	IEEE 802.3i(10Base-T) IEEE 802.3u(100Base-TX) IEEE 802.3ab(1000Base-T) IEEE 802.3z(1000Base-X) IEEE 802.3af (POE) IEEE 802.3at (POE+)
Switch Properties	
Mode	Store and forward
Switching Capacity	20Gbps
Forwarding Rate	14.88Mpps
Date buffer	2Mbit
MAC Address	8K
Switching delay	<10μs
Physical port	
Electrical port	8 10/100/1000Base-TX ports, RJ45, all electrical ports support up to 30W (802.3at standard) POE+ power supply
Optical port	2 Gigabit SFP Optical Slots, LC
LED Indicator	Power indicator (P1,P2), Interface indicator (Link/ACT), POE indicator (POE)
Mechanical	
Dimensions	61mm×120mm×147mm (W×D×H)
Weight	820g
Installation	DIN-rail mounting, Wall mounting (with optional kit)
Dimensions	IP40, Pleated high-strength aluminum housing
Electrical	
Input Voltage	48VDC (44-57V) redundant power input, supports overload, reverse connection protection, 6-pin 5.08mm pitch terminal block (relay occupies 2 positions)
Alarm port	Support 1 relay alarm output, terminal block

Power	Non-POE<4.1W POE: Supports up to 30W (802.3at standard) POE+ power per port		
Operating Temperature			
Storage Temperature	-40°C~75°C		
Relative Humidity	5%~95% (Non condensing)		
Operating Temperature	-40°C~85°C		
Certifications			
System certification	ISO9001, ISO14001, ISO22163 (IRIS)		
Standard certification	CE, FCC		
Safety	Compliance with EN60950		
EMC	EMI	FCC CFR47 Part 15B Class A, CE EN55032 Class A	
	EMS	ESD	EMS
		RS	
		EFT	
		Surge	
		CS	
		PFMF	
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
Carat10-D2GF8GP-DP	<ul style="list-style-type: none"> *Industrial DIN-rail unmanaged 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 level

Carat10 Model selection recommendation	
Carat10-D2GF4GT-D3	<ul style="list-style-type: none"> *Industrial DIN-rail unmanaged full Gigabit Ethernet switch *2 x 1000BaseSFP slots + 4 x 10/100/1000BaseT(X) ports *18~72 VDC redundant power inputs *IP40 protection level
Carat10-D2GF8GT-D3	<ul style="list-style-type: none"> *Industrial DIN-rail unmanaged full Gigabit Ethernet switch *2 x 1000BaseSFP slots + 8 x 10/100/1000BaseT(X) ports *18~72 VDC redundant power inputs *IP40 protection level
Carat10-D2GF16GT-D3	<ul style="list-style-type: none"> *Industrial DIN-rail unmanaged full Gigabit Ethernet switch *2 x 1000BaseSFP slots + 16 x 10/100/1000BaseT(X) ports *18~72 VDC redundant power inputs *IP40 protection level
Carat10-D2GF4GP-DP	<ul style="list-style-type: none"> *Industrial DIN-rail unmanaged full Gigabit PoE+ Ethernet switch *2 x 1000BaseSFP slots + 4 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
Carat10-D2GF8GP-DP	<ul style="list-style-type: none"> *Industrial DIN-rail unmanaged 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 level
Carat10-D2GF16GP-DP	<ul style="list-style-type: none"> *Industrial DIN-rail unmanaged full Gigabit PoE+ Ethernet switch *2 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