Carat10-D2GF16TX-D2C

DIN-Rail unmanaged Industrial Ethernet switch

Features



- 16 x 10/100BaseT(X) ports + 2 x100/1000BaseSFP slots
- Power input for 9-36VDC
- 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

Carat10-D2GF16TX-D2C card track non-network Management Industrial Ethernet is an entry-level switch designed for network communications in industrial areas such as smart city, new energy, intelligent transportation and industrial automation, meeting industry standards such as EN60950, EN50032, cE, FCC and other certification, suitable for EMC (grade 3) has strict requirements of the industrial field environment, for different industrial applications to provide high-reliable industrial network connectivity solutions.

Carat10-D2GF16TX-D2C uses a store-and-forward switch with 7 x 10/100BaseT(X) ports + 1 x 100BaseFX ports (SFP slots)。

Carat10-D2GF16TX-D2C is a metal structure Shell which can shield electromagnetic

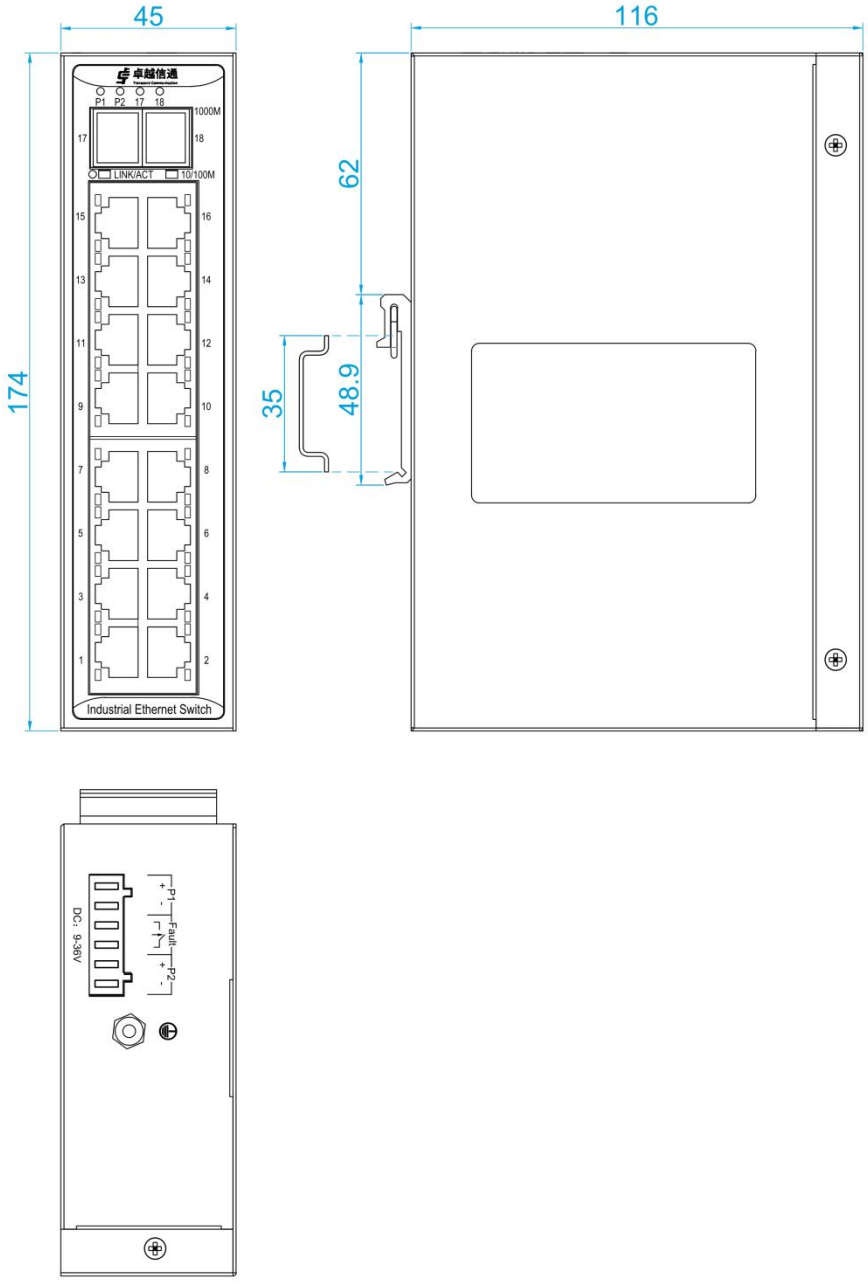
interference and resist vibration and shock. The industrialized fan-free design avoids the trouble points caused by the stop of the fan. When the device has a power failure, it can send an alarm to the Network administrator through the built-in relay warning function, ensure products in a variety of harsh industrial environment long-term stability, reliable, safe use.

Specifications

Compliances	
Standards	IEEE 802.3i(10Base-T) IEEE 802.3u(100Base-TX) IEEE 802.3z(1000Base-X)
Switch Properties	
Mode	Store and forward
Switching Capacity	9.2Gbps
Forwarding Rate	5.36Mpps
Date buffer	4Mbit
MAC Address	16K
Switching delay	<10μs
Physical port	
10/100BaseT(X) Ports (RJ45 connector)	16（Automatic flow rate control, full/half duplex mode, MDI/MDI-X auto-detection）
1000BaseSFP slots	2 Gigabit SFP optical port slots, LC (using Gigabit singlemode/multimode SFP optical modules) or 2 100M SFP optical port slots, LC (using 100M singlemode/multimode SFP optical modules)
LED Indicator	POWER（P1,P2），PORT（Link/ACT,10/100M electric port）
Mechanical	
Dimensions	45mm×116mm×174mm(W×D×H)
Weight	690g
Installation	DIN-rail mounting, Wall mounting (with optional kit)
Other	IP40，metal housing
Electrical	
Input Voltage	24VDC(9~36VDC) redundant power input, support overload, reverse connection protection, 6-pin 5.08mm pitch terminal block (relay occupies 2 positions)
Alarm port	Support 1-way relay alarm output, terminal

Power	<5.8W		
Operating Temperature			
Working Temperature	-40℃~75℃		
Storage Temperature	-40℃~85℃		
Relative humidity	5%~95%（无凝露）		
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	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	500000 hrs		

Physical Dimensions



Ordering Information

Model	Description
Carat10-D16TX-D2C	DIN-Rail unmanaged industrial grade switch, 2 Gigabit SFP optical

	port slots, 16 100GbE electrical ports, 9~36VDC redundant power input, protection class IP40
Carat10 Model selection recommendation	
Carat10-D16TX-D2C	DIN-Rail unmanaged industrial grade switch, 16 100GbE ports, 9~36VDC redundant power input, protection class IP40
Carat10-D2GF16TX-D2C	DIN-Rail unmanaged industrial switch, 2 Gigabit SFP optical slots, 16 100GbE ports, 9~36VDC redundant power input, IP40 protection level
Carat10-D16TXPN-D2C	DIN-Rail unmanaged multicast filtered industrial switch, 16 100GbE ports, 9~36VDC redundant power input, protection grade IP40
Carat10-D2GF16TXPN-D2C	DIN-Rail unmanaged multicast filtered industrial switch, 2 Gigabit SFP optical slots, 16 100GbE ports, 9~36VDC redundant power input, protection class IP40

More information

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

We will contact you within 24 hours.

Copyright © 2006-2025 Transcend Communication Beijing Co.,Ltd. All Rights Reserved

Part or all of this document shall not be copied or used in any way and transmitted in any form without the written permission of the Company.

The content of this document is for information only and is subject to change without prior notice.