Carat20S Series

20 Ports L2 Lite Managed Industrial Ethernet Switch

Features



- 4 x 100/1000M SFP Optical Ports + 16 x 10/100/1000 Base-T(X) Ports (RJ45 Connector)
- 1 x CONSOLE port for CLI configuration and debugging
- 100~240VAC input, power relay alarm
- Metal enclosure, IP40 Protection Rating
- -40°C ~ +75°C wide operating temperature

Product Overview

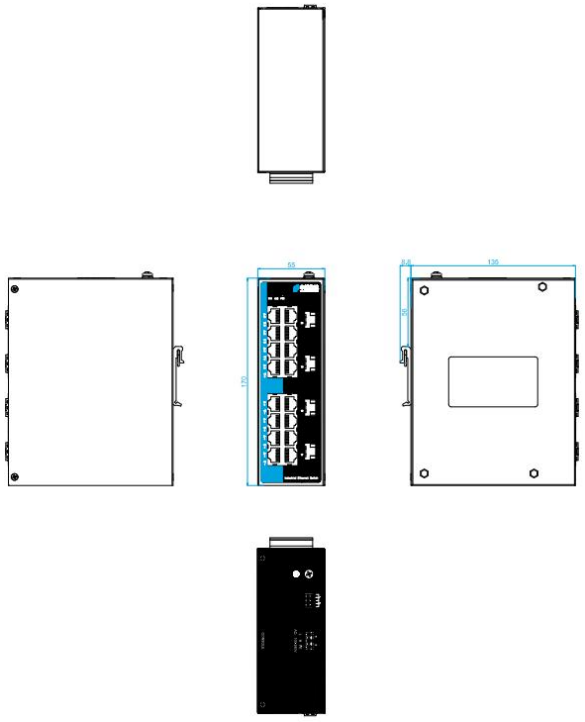
The Carat20S Series is a DIN-Rail Layer 2 Managed Industrial Ethernet Switch featuring 4 x 100/1000M SFP Optical Ports and 16 x 10/100/1000 Base-T(X) Ports (RJ45 Connector). It features high integration, compact size, rich functionality, and easy operation. It is widely applicable in industrial fields such as new energy, intelligent manufacturing, rail transit, and smart city.

Specifications

Standards Compliance	
Standard	IEEE 802.3i(10Base-T) IEEE 802.3u(100Base-TX、100Base-FX) IEEE 802.3ab(1000Base-T) IEEE 802.3z(1000Base-SX/LX) IEEE 802.3x(Flow Control) IEEE 802.1w(RSTP) IEEE 802.1Q(VLAN) IEEE 802.1p（CoS）
Switch Properties	
Switching Mode	Store and Forward
Switching Capacity	16Gbps
Packet Forwarding Rate	11.904Mpps
Buffer	2Mbit
MAC Address Table	4K
Switching Latency	<10μs
Port Performance	
Optical Port	4 x 100/1000M SFP Optical Ports
Electrical Port	16 x 10/100/1000 Base-T(X) Ports (RJ45 Connector), auto flow control, full/half
Debug/Management Port	1 x Console management port (RS-232), Type-C
LED Indicators	System indicator (SYS), Alarm indicator (ALM), Power indicator (PWR), Port indicators (Link/ACT) 1~8
Main Features	
Management and O&M	Port mirroring, SNMPv1/v2c, LLDP, DHCP Client, file management
Security Technology	Storm suppression, port rate limiting, user privilege levels, port alarms
VLAN Features	802.1Q Vlan
Reliability	RSTP
QoS	Supports DSCP, CoS/802.1p priority, SP queue scheduling algorithm
Mechanical	
Dimensions	55 x 170 x 135mm (W x H x D), excluding mounting brackets and DIN rail
Weight	665g
Mounting	DIN-Rail
Other	IP40 Protection Rating, Metal Enclosure
Electrical Performance	
Input Voltage	220VAC (100~240VAC) power input, overload and reverse polarity protection, 3-pin 5.08mm pitch terminal block
Wattage	<5W

Operating Environment			
Operating Temperature	-40℃~75℃		
Storage Temperature	-40℃~85℃		
Relative Humidity	5% ~ 95% (non-condensing)		
Standards and Certifications			
System Certification	ISO9001, ISO14001, ISO22163 (IRIS)		
Standard Certification	CE, FCC		
Safety	Complies with EN60950		
EMC	EMI	FCC CFR47 Part15B Class A,CE EN55032Class A	
	EMS	ESD Immunity	EN61000-4-2
		RF Electromagnetic Field	EN61000-4-3
		Electrical Fast Transient Burst	EN61000-4-4
		Surge Immunity	EN61000-4-5
		Conducted Susceptibility	EN61000-4-6
		Power Frequency Magnetic	EN61000-4-8
Vibration	Complies with IEC 60068-2-6		
Shock	Complies with IEC 60068-2-27		
Free Fall	Complies with IEC 60068-2-32		
MTBF	MTBF greater than 50,000 hours		

Physical Dimensions



Ordering Information

Model	Description
Carat20S-D4GF16GT-D2C	DIN-Rail Web-Managed Industrial Ethernet Switch, 4 x 100/1000M SFP Optical Ports, 16 x 10/100/1000 Base-T(X) Ports (RJ45 Connector), DC 9~36V redundant power input, IP40 Protection Rating, EMC Level 3, Metal Enclosure, Operating
Carat20S-D4GF16GT-HV	DIN-Rail Web-Managed Industrial Ethernet Switch, 4 x 100/1000M SFP Optical Ports, 16 x 10/100/1000 Base-T(X) Ports (RJ45 Connector), AC 100~240V (DC 100~280V) power input, IP40 Protection Rating, EMC Level 3, Metal Enclosure,

More Information

For more information about Transcend products, please visit our website or contact us via our

email: **info@transcendcom.com**

web: **www.transcendcom.com**

We will contact you within 24 hours.

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