

Carat10-D5TX-D2C

DIN-rail Unmanaged Industrial Ethernet Switches

Features

- 5 x 10/100M adaptive power ports
- 9-60VDC wide voltage redundant power inputs
- Switching broadcast storm suppression function, QoS function and power alarm function
- Relay output warning in case of power failure
- Industrial fanless dustproof design is stable and reliable for long working hours



Product Overview

Carat10-D5TX-D2C DIN-rail unmanaged Industrial Ethernet switch is an entry-level switch designed for network communication in Smart City, New Energy, Intelligent Transportation, and Industrial Automation, etc. It complies with industry standards such as EN60950, EN50032, and has obtained many certifications such as CE, FCC, etc., and is suitable for industrial field environments with stringent requirements for EMC (Class 3). The Carat10-D5TX is a highly reliable industrial network connectivity solution for different industrial applications.

Carat10-D5TX-D2C adopts store-and-forward switching and provides five 100GbE ports.

Carat10-D5TX-D2C is a metal structure shell, can shield electromagnetic interference and

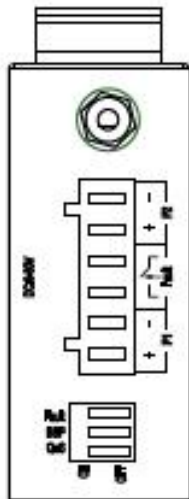
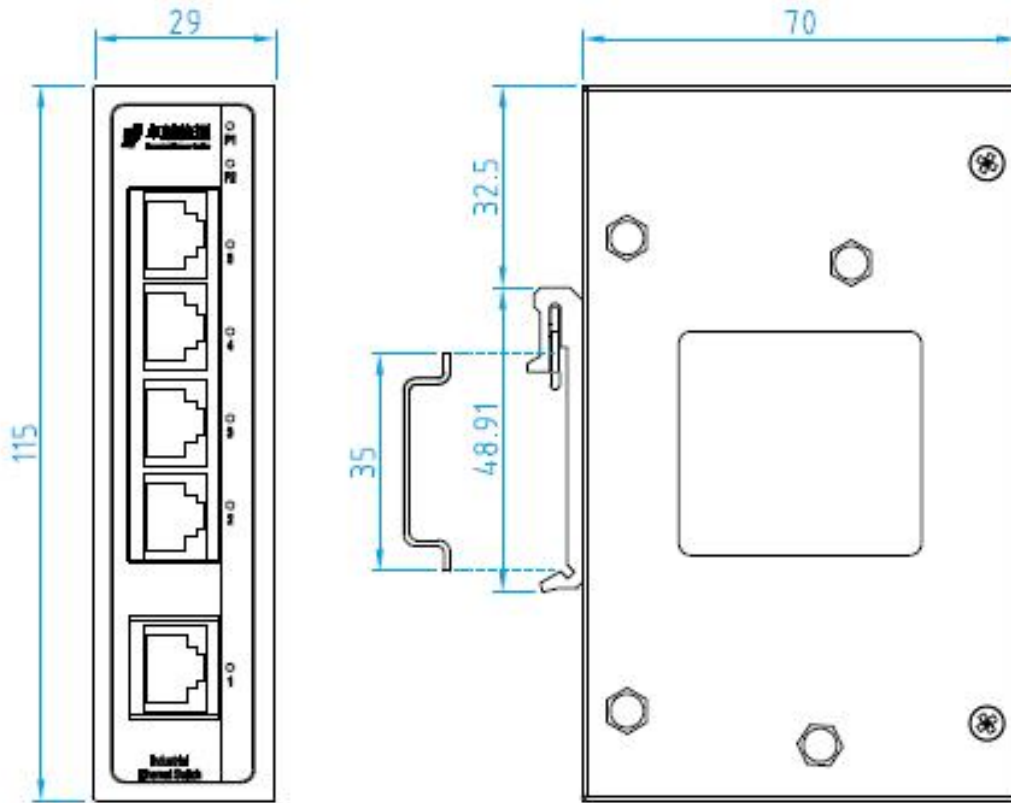
anti-vibration and shock resistance, industrialized fanless design to avoid the reduction of failure points caused by fan stalling, the equipment on the dip switches can control the broadcast storm suppression function, QoS function and power alarm function, when the device occurs a power failure, you can through the built-in relay alarm function to the network manager to send an alarm. When a power failure occurs, the device can send an alarm to the network administrator through the built-in relay alarm function.

Specifications

| Compliances | |
|------------------------|---|
| Standards | IEEE 802.3i(10Base-T) IEEE 802.3u(100Base-TX) |
| Switch Properties | |
| Mode | Store and forward |
| Switching Capacity | 1Gbps |
| Packet Forwarding Rate | 0.744Mpps |
| Cache Capacity | 384Kbit |
| MAC Address | 1K |
| Switching Delay | <10μs |
| Port Performance | |
| Electrical port | 5 x 10/100Base-TX ports, RJ45, full/half-duplex mode, MDI/MDI-X auto-detection |
| Optical port | Enable/disable: broadcast storm suppression function, QoS function and power alarm function |
| LED Indicator | Power indicator (P1,P2), Interface indicator (Link/ACT) |
| Mechanical properties | |
| Dimensions | 29mm×70mm×115mm (W×D×H) |
| Weight | 550g |
| Mounting | DIN-rail type |
| Other | IP40 protection class, metal housing |
| Electrical Performance | |
| Input Voltage | 12/24/48VDC(9-60VDC) Redundant power inputs |
| Power | <2W |
| Working environment | |
| Working Temperature | -40°C~75°C |
| Storage Temperature | -40°C~85°C |
| Relative humidity | 5%~95% (condensationless) |

| Certification | | | |
|-----------------------------------|---|---|-------------|
| System Certification | ISO9001, ISO14001, ISO22163 (IRIS) | | |
| Standard Certification | CE, FCC | | |
| Safety | Compliance with EN60950 | | |
| Electromagnetic compatibility EMC | EMI | FCC CFR47 Part 15B Class A, CE EN55032 Class A | |
| | EMS | Electrostatic discharge immunity (ESD) | EN61000-4-2 |
| | | Radio Frequency Electromagnetic Field Radiation Susceptibility (RS) | EN61000-4-3 |
| | | Electrical Fast Transient/Burst Immunity (EFT) | EN61000-4-4 |
| | | Surge Immunity (Surge) | EN61000-4-5 |
| | | Radio Frequency Conducted Susceptibility (CS) | EN61000-4-6 |
| | | Radio Frequency Conducted Susceptibility(PFMF) | EN61000-4-8 |
| Vibration | Conforms to IEC 60068-2-6 | | |
| Shock | Conforms to IEC 60068-2-27 | | |
| Free fall | Conforms to IEC 60068-2-32 | | |
| MTBF | Mean Time Between Failure (MTBF) greater than 500,000 hours | | |

Physical Dimensions



Ordering Information

| Model | Description |
|---|--|
| Carat10-D5TX-D2C | DIN-rail unmanaged industrial grade switch, 5 x 100GbE ports, 9~60VDC redundant power input, IP40 protection level |
| Carat10 Series Selection Recommendations | |
| Carat10-D5TX-D2C | DIN-rail unmanaged industrial switch, 5 x 100GbE electrical ports, 9~60VDC redundant power input, protection class IP40 |
| Carat10-D4TX1SC02D3-D2C | DIN-rail unmanaged industrial switch, 4 x 100GbE, 1 x 100GbE optical port (SC multimode dual fiber, 1310nm, 2km), 9~60VDC redundant power input, protection class IP40 |
| Carat10-D4TX1SC20D3-D2C | DIN-rail unmanaged industrial switch, 4 x 100GbE, 1 x 100GbE optical port (SC single-mode dual-fiber, 1310nm, 20km), 9~60VDC redundant power input, protection class IP40 |
| Carat10-D4TX1ST02D3-D2C | DIN-rail unmanaged industrial switch, 4 x 100GbE, 1 x 100GbE optical port (ST multi-mode dual-fiber, 1310nm, 2km), 9~60VDC redundant power input, IP40 protection grade |
| Carat10-D4TX1ST20D3-D2C | DIN-rail unmanaged industrial switch, 4 x 100GbE electrical ports, 1 x 100GbE optical port (ST single-mode dual-fiber, 1310nm, 20km), 9~60VDC redundant power input, IP40 protection grade |

More information

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

We will contact you within 24 hours.

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