

DS-3D01 Series 100M Optical Transceiver



Overview

Adopting time division and wavelength division multiplexing technology, the DS-3D01 series Fiber Optic Transmitter / Receiver is capable of transmitting signal via the Ethernet interface in the single-fiber and single-mode, and can be used both in pairs and cooperated with 100M Optical Transceiver. Owing to the industrial design which is highly reliable, DS-3D01 series can be widely applied to the video surveillance systems in public security, transportation, mine, factory, etc.

Available Models

| Models | Description |
|-------------|-----------------------|
| DS-3D01T-A | 1-ch 100M Transmitter |
| DS-3D01R-A | 1-ch 100M Receiver |
| DS-3D01R-AU | 1-ch 100M Receiver |

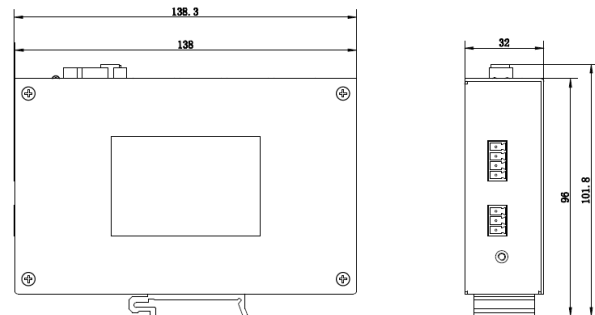
Key Features

- 1 10/100BaseT(X) self-adaptive RJ45 interface;
- 1 100BaseFX Ethernet optic interface (FC and SC selectable);
- Single-fiber and single-mode with 20km transmission distance;
- IEEE802.3, IEEE802.3u, and IEEE802.3x network standards;
- Storage and forwarding switch;
- Broadcast storm prevention;
- Delay time of data exchange is less than 5μs;
- QoS (Quality of Service);
- Compact structure;
- Able to work between -30 °C and 70 °C (-22 °F ~ 158 °F);
- Plug and play, and convenient installation;
- Industrial design.

Typical Application



Dimension



DS-3D01 Series 100M Optical Transceiver



| Model | DS-3D01T-A | DS-3D01R-A | DS-3D01R-AU |
|--------------------------|---|-----------------|-----------------|
| Parameters | | | |
| Optic | | | |
| Interface Type | FC/SC Interface | | |
| Transmission Distance | 0~20 km | | |
| Optical Type | Single-mode and Single-fiber, 9/125 μm | | |
| Input/output Wavelength | Tx1310/Rx1550nm | Tx1550/Rx1310nm | |
| Sending Power | -14~-7dBm | | |
| Receiving Sensitivity | -32 dB | | |
| Network | | | |
| Interface | 1 RJ45, 10/100BaseT(X) | | |
| Network Standard | IEEE802.3, 802.3u, 802.3x | | |
| Process Mode | Storage and Forwarding | | |
| Flow Control | IEEE802.3x Full Duplex, backpressure | | |
| Priority Queue | 4 | | |
| MAC Address Table | 2k | | |
| QoS (Quality of Service) | Support | | |
| Exchange Capacity | 12Gbps | | |
| Packet Forwarding Rate | 0.3Mpps | | |
| Internal Cache | 384Kbit | | |
| General | | | |
| LED Indicator | OPT optical fiber link indicator, PWR power indicator | | |
| Cover | Metal Material, No Fan | | |
| IP level | IP 40 | | |
| Power Supply | 12 VDC/1 A | | |
| Consumption | < 6W | | |
| Working Temperature | -30 °C ~ 70 °C (-22 °F ~ 158 °F) | | |
| Working Humidity | 5~95% (No Condensation) | | |
| Weight | 0.4kg (0.88lb) | | |
| Dimension (H×W×D) | 138.3mm×32mm×99.5mm (5.44"×1.26"×3.92") | | |
| Installation | DIN Industrial Rail Mounted | | 4U Rack-Mounted |