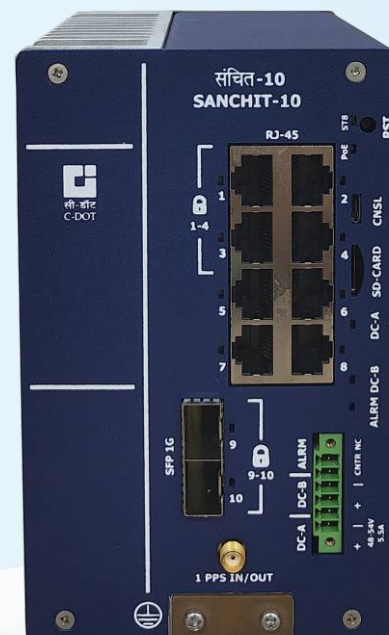




सी-डॉट
C-DOT

SANCHIT-10

8-Port Industrial Ethernet Switch



Centre for Development of Telematics

C-DOT's SANCHIT-10 is a layer-2/layer-3 managed Ethernet switch supporting 8 x 10/100/1000BaseT copper (RJ45) and 2 x 1G optical (SFP) interfaces. The copper ports support PoE (15.4W per port) and PoE+ (30W per port) power feed. PoE/PoE+ allows a single Ethernet cable to provide both data connection and enough power to network devices such as wireless access points (WAPs), IP cameras/surveillance cameras, VoIP phones, Video IP phones, etc. The switch supports CLI and GUI interfaces for configuration and monitoring.

Key Features:

- 8 X 10/100/1000BaseT Copper and 2 X 1G Optical Ethernet interfaces
- Switching capacity of up to 26Gbps
- Packet forwarding rate of 14.88Mpps
- MACSec support on ports
- PoE/PoE+ support option on all copper ports
- Supports 4096 MAC addresses
- Supports 4096 VLAN IDs
- Visual indications for system, port, power input and PoE status
- Fanless, convection-cooled system
- DIN rail compliant chassis

Specifications:

Main Features

- 8 X 10/100/1000BaseT Copper Ethernet interfaces and 2 X 1G Optical Ethernet interfaces
- MACSec support on 4 Copper ports and 2 Optical ports
- PoE (IEEE 802.3af) & PoE+ (IEEE 802.3at) support on 8 Copper ports
- Up to 240W PoE power budget
- Rate limiting of bandwidth on the Switch ports
- Port mirroring / Flow mirroring
- Traffic shaping
- Suitable visual indications for healthy/unhealthy conditions and alarms
- Network Time Protocol (NTP) for synchronizing with a centralized NTP server
- IEEE 802.3x full duplex on 1000Base-X ports

- Full duplex capabilities on all ports
- MAC based VLAN, protocol based VLAN and IP subnet based VLAN
- Supports Static and LACP Link Aggregation
- Support Jumbo frames
- LED Power Reduction support
- Multiple user based privilege levels supported
- Supports DHCP Snooping and Relay feature
- ARP Inspection
- DDMI on 2 X 1G SFP ports

Layer-2 Switching Features

- 802.1Q VLAN switch: 4K MAC, 4K VLANs
- Spanning Tree Protocol support
- Rapid Spanning Tree Protocol (RSTP) support
- Multiple Spanning Tree Protocol (MSTP) support
- Internet Group Management Protocol version 2 and version 3 (IGMPv2/v3) support
- Multicast Listener Discovery (MLD) version 1 and version 2 support

Layer-3 Switching Features

- Static Routing for IPV4 and IPV6

Security Features

- Port-based IEEE 802.1X
- Network Access Server (NAS)
- Port-based IEEE 802.1X
- Single and multiple IEEE 802.1X
- MAC-based authentication
- Port based VLAN and QoS assignment
- Guest VLAN
- RADIUS authentication and accounting
- MAC address limit
- TACACS+
- Web and CLI Authentication
- Authorization (15 user levels)
- ACLs for filtering, policing, and port copy
- IP source guard
- IP MAC binding
- IP MAC binding dynamic to static
- MACSec (802.1AE) support on 4 Copper ports and 2 Optical ports

Management

- HTTP Server
- CLI – Micro-USB console port and Telnet
- Management access filtering HTTPS
- SSH
- TFTP
- IPv6 Management
- System/syslog
- Software Upload through Web
- SNMPv3 support
- RMON
- IEEE 802.10AB-2005 Link Layer Discovery –LLDP and LLDP-MED
- Discovery filtering, CDP
- Loop detection/ restore to default
- DNS client, proxy
- DHCP server, Client
- Daylight savings
- Configuration download and upload
- Multiple SNMP trap destinations
- Software upgradation through CLI/GUI interface
- Status LEDs for LAN-WAN ports, Board-up and Power
- Configuration Rollback

Quality of Service

- Traffic classes (8 active priorities)
- Port default priority
- User priority
- Input priority mapping
- QoS control list (QCL mode)
- Storm Policing
- Weighted Random Early Detection (WRED)
- Policers: port, service, queue, and global/ACL
- Port and queue egress shaper

Packaging

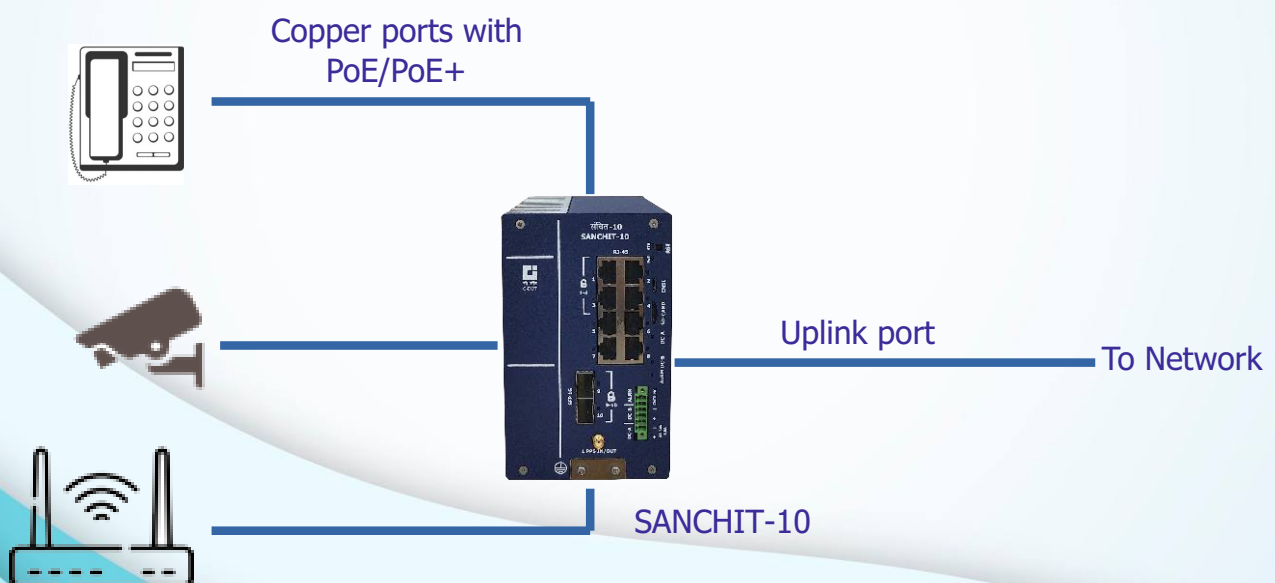
- DIN Rail mountable
- IP30 compliant chassis
- Dimensions (W X H X D):
92mm X 150mm X 131.2mm

Power Supply

- Dual -54V DC power supply

Ordering Information

- SANCHIT-10





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