



# 100Gbps Managed Fiber Switch

## FS24X2C

**24 Ports 10G/1G SFP+/SFP+ Connectors,  
2 Ports 100G QSFP28 Connectors,  
With L3 Management Fiber Ethernet Switch  
Or SDN Switch (option)**



FS24X2C Front View



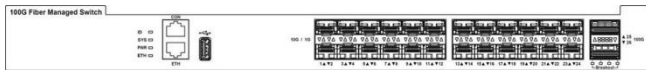
FS24X2C Rear View



## Product Overview

The FS24X2C Routing Switch Series (also known as “24X2C”) is a high performance 100Gbps Fiber Ethernet switch designed to meet and fulfill the requirements of next generation Enterprise, Data Center, Metro, and HCI(Hyper-Converged Infrastructure) SDN networks. The 24X2Cs are based on the sixth generation Ethernet switching chip CTC7132. With the CentecOS system software platform, it supports advanced Layer 3 mainstream protocols and applications which can be conveniently deployed and managed.

The FS24X2C Switch includes all fiber configurations for 24-port 10G/1G SFP+/SFP and 2-port 100G QSFP28 fiber connectors.



## Features

### Technical highlights

- Standard 1RU pizza-box solution
- Up to 880G bps switching capacity
- Cut-Through switching method
- Very low system power consumption: 100W
- L2/L3/Data Center capability
- Support NVGRE/VXLAN/GENEVE
- Support Tunnel Routing & Bridging without limitation.
- Configurable profiles for different MAC/IP Data Center distribution
- Up to 112K MAC and 56K IP Routing tables
- RJ45 Console port and Out-band RJ45 Ethernet Management port

### Layer 2 Features

- Up to 112K L2 Forwarding Entries
- Jumbo Frames (9600Bytes)
- 802.1d Spanning Tree Protocol
- 802.1w Rapid Spanning Tree Protocol
- 802.1s Multiple Spanning Tree Protocol
- 802.1ab Link Layer Discovery Protocol
- 802.3x FlowControl

- Storm Control
- MAC limit per port/rate limiting perport
- 802.1Q VLAN(4094VID)
- Private VLANs
- Port/MAC based VLAN
- 802.1ad QinQ
- 802.3ad Link Aggregation/LACP
- Multi-Chassis Link Aggregation(MLAG)

### Layer 3 Features

- Up to 56K IPv4Routes
- IPv4 standard support, ICMP, ARP
- VRF
- RIPv1/v2
- OSPF
- BGP
- 64-way Equal Cost Multi-path Routing(ECMP)
- VRRP
- Virtual ARP(VARP)

### Multicast

- IGMP v1/v2/v3 snooping/IGMP
- IGMP Fast Leave & Static Join/ IGMPproxy

### Data Center DCB Features

- Data Center TCP
- Per-Priority Flow Control(PFC)
- Data Center Bridging Extensions(DCBX)
- NVGRE, VXLAN, GENEVE
- Open API interfaces to achieve SDN

### Advanced Metro Features

- ERPS (Ethernet Ring Protection Switching)
- ITU-TG.8031/Y.1342 ELPS protocol
- ITU-TG.8032/Y.1344 ERPS protocol
- Ethernet OAM: IEEE802.1ag/Y.1731
- Link OAM IEEE802.1ah (EFM) support

### QoS Features

- Upto 8 unicast queue,4 multicast queue and 1 SPAN queue per port
- Strict priority queueing
- 802.1p based classification
- DSCP based classification and remarking
- Egress Rate Shaping/WRR
- Policers
- Rate limiting

### Security

- Centralized port-based and MAC-based 802.1x authentication
- Port based Mac Sec
- Standard and extended ACL.
- MAC portbinding, port isolation, private VLAN, MAC security and MAC filtering
- DoS attack and CPU traffic protection

- RADIUS
- TACACS+
- COPP(Control Plane Protect)

### Advanced Monitoring and Provisioning

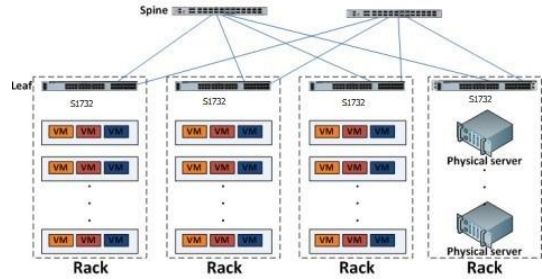
- CPU Mirror
- Elephant Flow Detection(EFD)
- Latency monitor\*
- Buffer monitor\*
- Microburst Detection\*

### Network Management

- Smart Config
- 100/1000 Management Port
- RS-232 Serial ConsolePort
- USB Port
- Telnet and SSHv1/v2
- AAA
- TFTP/FTP
- SNMPv1/v2/v3
- Syslog
- Role based Access Control
- Industry Standard CLI
- Blue Beacon LED for system identification
- WEBUI
- Smart Config

Notes: Features remarked with "\*" are in roadmap.

FS24X2C provides 1GE/10GE/100GE ports for Access or Aggregation switches:



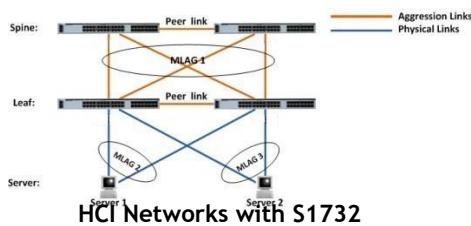
Data Center Servers Access Network with FS24X2C

### Performance

| Product           | FS24X2C  | FS24X2Q  | LS48T4X  | FS48S4X  |
|-------------------|----------|----------|----------|----------|
| Switch capability | 880 Gbps | 640 Gbps | 176 Gbps | 176 Gbps |
| Thru-put          | 540 Mpps | 480 Mpps | 132 Mpps | 132 Mpps |

### Applications

FS24X2C with 1GE + 10GE/100GE ports are suitable for HCI (Hyper-Converged Infrastructure) networks. Using 1GE ports for management network and using 10G/25G ports for data traffic network:



### Ordering Information

| Product | Description  |
|---------|--|
| FS24X2C | 24 x 10GE SFP+ ports<br>2 x 100GE QSFP28 ports<br>Single AC power supply<br>(*option for Dual power )<br>Front-Rear Airflow, fixed FAN |
| FS24X2Q | 24 x 10GE SFP+ ports<br>2 x 40GE QSFP+ ports<br>Single AC power supply<br>(*option for Dual power )<br>Front-Rear Airflow, fixed FAN   |