

Product Overview

The Centec V530 Series Switches are cost effective high performance switches for SDN/Openflow applications. It is designed based on Centec's sixth generation Ethernet switching silicon CTC7132. Leveraging OVS, the V530 fully supports Openflow v1.4. With the powerful full-field matching ability and flexible editing capability, it is widely used in applications like DCI, security and radio/television broadcast.

V530 has ports with port speed of 1G/10G/40G/100G.

The V530 Series Switches currently includes following configurations: V530-24X2C/V530-24X2Q/V530-24T8X/V530-48T4X/V530-48S4X/V530-48P4XJ/V530-24P4XJ.



Figure 1 Centec V530 Series

Features

Technical highlights

- Standard 1RU pizza-box solution
- Up to 880Gbps switching capacity
- Low power consumption
- Up to 3.5K wildcard match flows with complete match field and stats
- Meter table with up to 1000 meter ID
- Support Group(all/select/indirect/fast failover)
- OpenFlow specification 1.0/1.2/1.3/1.4
- Support L2 to L4 complete matching fields
- Support Per flow multiple actions
- Support Hybrid mode(Traditional features + Openflow features)

- Support IPFIX

Layer 2 features

- Up to 32K L2 Forwarding Entries
- Support Jumbo Frames(9600 Bytes)
- Support 802.1w RSTP (Rapid Spanning Tree Protocol)
- Support 802.1Q VLAN (4094 VID)

Layer 3 features

- Support up to 8K IPv4 Routes
- Support IPv4, ICMP, ARP
- Support OSPF

QoS features

- Support simple classification
- Support Traffic policing / Traffic shaping
- Support Congestion management(SP/WDRR/SP+WDRR scheduling)
- Support Congestion avoidance(TD、WRED)
- Support Traffic statistics

Security features

- DDoS attack protection
- CPU traffic protection
- Support RADIUS
- Support TACACS+
- Support G.8032
- Support CFM
- Support use SSL to connect the controller

Management

- 100/1000 Management Port
- RS-232 Serial Console Port
- USB Port
- SSHv1/v2
- Support AAA
- Support TFTP/FTP
- Support SNMPv1/v2/v3
- Support Syslog
- Industry Standard CLI
- Support WEB UI
- Support Rmon

Hybrid Features

- Support enable/disable Openflow on interface
- Support openflow mac learn
- Support Normal MPLS and Flex MPLS
- Support GRE/NVGRE/VXLAN Tunnel
- Support Bond
- Support Queue
- Support QinQ
- Support IPv4/IPv6 Transform
- Support MPLS-TP OAM
- Support UDF

Applications

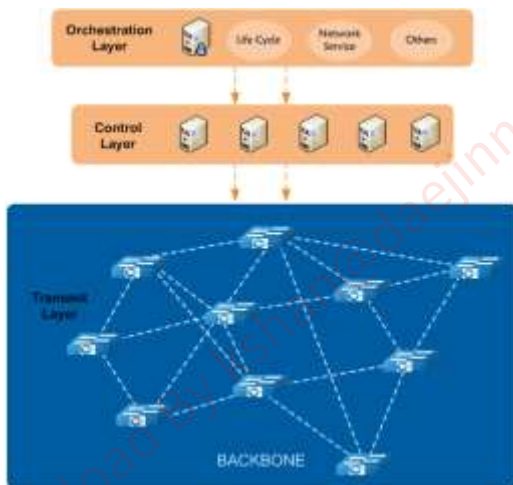


Figure 2 SD-DCI Application

Nowadays, most leased line service providers use traditional VPN technology to build their own backbone/metropolitan area network. However, it is slow to establish or change a connection with high construction costs. As the size of the network expands and the number of users grows quickly, it turns to be very inefficient for operation and fault management. Based on SDN switch, the SD-DCI solution provides a new, flexible and efficient way to help users greatly reduce construction and operational costs. Centec SDN switch is already deployed in several commercial SD-DCI networks.

Ordering Info

Product	Description
V530-24X2C	24 x 10GE SFP+ ports 2 x 100GE QSFP28 ports Dual modular AC power supply Front-Rear Airflow, fixed FAN
V530-24X2Q	24 x 10GE SFP+ ports 2 x 40GE QSFP+ ports Dual modular AC power supply Front-Rear Airflow, fixed FAN
V530-24T8X	Standard 1U 19" rack mountable 24x10/100/1000 Base-T ports 8x10GE SFP+ ports Single built-in AC power supply Front-Rear Airflow, fixed FAN
V530-48T4X	48 x 1GE Base-T ports 4 x 10GE SFP+ ports Dual modular AC power supply Front-Rear Airflow, fixed FAN
V530-48S4X	48 x 1GE SFP ports 4 x 10GE SFP+ ports Dual modular AC power supply Front-Rear Airflow, fixed FAN
V530-48P4XJ	48 x 1GE Base-T ports, PoE 802.3af/at 4 x 10GE SFP+ ports 2 Fixed AC power supply Front-Rear Airflow, fixed FAN
V530-24P4XJ	24 x 1GE Base-T ports, PoE 802.3af/at 4 x 10GE SFP+ ports 2 Fixed AC power supply Front-Rear Airflow, fixed FAN

Table 1 Ordering Info



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