



## V5826

### Carrier-Level Aggregation L3 Ethernet Switch

#### Key Features:



Supports 24 10G SFP+ ports and 2 100GE QSFP28 ports



Carrier-Level High Reliability  
Data-center TOR switches  
Full Layer-3 Functions



Advanced Hardware Architecture and Industry-leading Port Density



Varied Service Characteristics  
Versatile IPv6 Solution  
Complete Security Mechanism

#### Introduction:

V5826 is a new generation high-performance data center full 10GbE TOR switch launched by VSOL for high-performance cloud computing, data centers and high-end parks. It adopts advanced hardware architecture design, and provides high-level switching performance and rich data center business features in the industry. The V5826 has 24 downlink 10GE ports and 2 100GE uplink ports. The backplane bandwidth is up to 880Gbps, and the throughput is up to 660Mpps. The V5826 software platform is developed based on independent intellectual property rights, integrating IPv6, MPLS VPN, network security, traffic analysis, virtualization stack and other network services. While providing high-performance L2/L3/L4 line speed switching capabilities, it also combines multiple data center high reliability technologies such as uninterrupted upgrade/forwarding, elegant restart, redundancy protection, etc., to ensure the network's uninterrupted communication capability for the longest time.

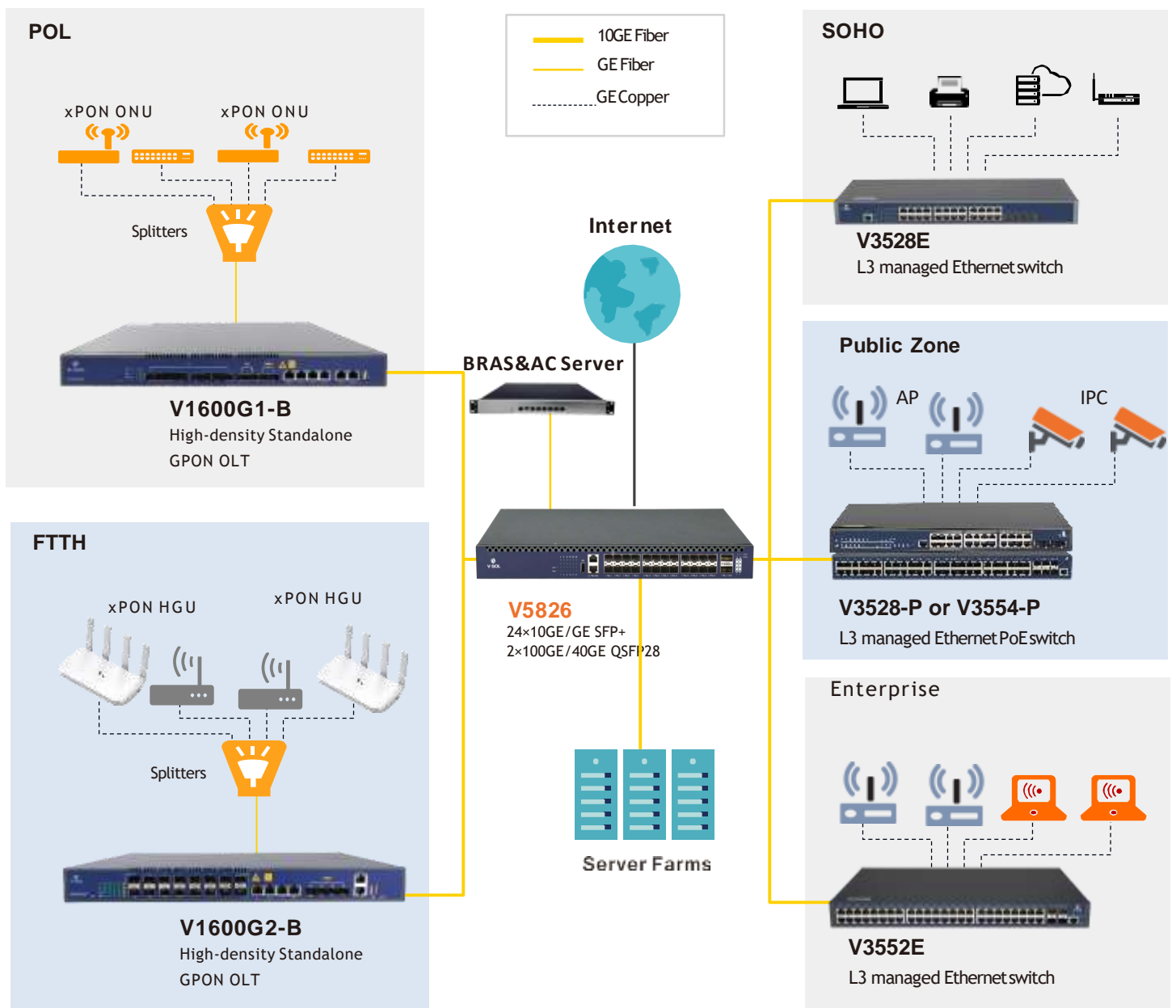




## V5826

- 24\*10GE/GE (SFP+) ports
- 2\*100GE/40GE (QSFP28) ports

## Application Diagram



Parameter		V5826
Interfaces		24*10GE/GE (SFP+)+ 2*100GE/40GE (QSFP28)
Console		1 RJ45, 1 MGMT
Backplane		880Gbps
Forwarding rate		660Mpps
Chassis	Dimensions(WxDxH)(mm)	440x300x44
	Weight(KG)(empty)	6.1
Package	Dimensions(WxDxH)(mm)	576*448*94
	Weight(KG)	6.2
Environment	Operating temperature/humidity	-10° C -50° C, 10%-90% non-condensing
	Storage temperature/humidity	-20° C-70° C; 5%-95% non-condensing
Power supply(hot-swop)	AC:100V-240V, 50Hz±10% DC: -36V--72V	2
Power status monitoring		Support
Total output BTU (1000BTU/H=293W)		238.91
Fan number		4 (built-in)
Noise@25°C(dBA)		57
MTBF(H)		>200,000
Forwarding mode		Store-forward
FLASH(MB)		4096
DRAM(MB)		2048
MAC		13K
Jumbo frame		16105
Routing table	IPv4	16K
ARP table	IPv4	16K
Total SVI		1K

## Features

### VLAN

- 4K VLAN IDs
- GVRP
- 1:1 and N:1 VLAN Mapping
- QinQ and selective QinQ
- Private VLAN

### Multicast

- IGMP v1/v2c/v3
- IGMP Snooping
- IGMP Fast Leave
- Multicast group policy and multicast number limit
- MVR ,PIM-SM, PIM-DM

### IPv4

- Static routing, RIP v1/v2, OSPF, BGP
- Policy Based Routing(PBR)
- ECMP
- BFD for OSPF, BGP

### IPv6

- ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet
- IPv6 neighbor discovery
- Path MTU discovery
- MLD v1/v2
- MLD snooping
- IPv6 Static Routing, RIPng, OSPFv3, BGP4+
- Manual tunnel, ISATAP tunnel, 6-to-4 tunnel

### Spanning Tree

- 802.1d STP, 802.1w RSTP, 802.1s MSTP
- BPDU protection, root protection and ring protection

### QoS

- Support traffic classification based on each field of L2/L3/L4 protocol header
- Support CAR traffic restriction
- Support 802.1P/DSCP priority re-tagging
- Support SP, WRR, SP+WRR and other queue scheduling methods
- Supports Tail-Drop, WRED and other congestion avoidance mechanisms
- Support traffic supervision and traffic shaping

### Reliability

- Support power supply 1+1 backup
- Support power supply and fan hot-swapping
- Support static/LACP way link aggregation, support cross-device link aggregation
- Support EAPS and other ring protection
- Support VRRP
- Support Ethernet OAM 802.3ah/802.1ag/ITU-Y.1731
- Support GR for OSPF, BGP
- Support BFD for OSPF, BGP
- Support ISSU service without interruption system upgrade

### Security

- Support L2/L3/L4 based ACL flow identification and filtering security mechanism
- Support anti-DDoS attack, TCP SYN Flood attack, UDP Flood attack, etc.
- Supports suppression of multicast, broadcast, and unknown unicast messages
- Support port isolation
- Support port security, IP+MAC+port binding
- Support DHCP Snooping, DHCP Option 82
- Support IEEE 802.1x authentication
- Support Radius, BDTacacs+ authentication
- Support uRPF
- Support hierarchical protection of command line

### Management

- Support Console, Telnet, SSH, SNMP v1/v2/v3, RMON;
- Support TFTP file upload and download management
- Support sFLOW, Netflow traffic statistics analysis

### Environment

- Operating temperature/humidity: -10°C - 50°C, 10%-90%, non-condensing
- Storage temperature/humidity: -20°C-70°C, 5%-95%, non-condensing

### Green Energy Saving

- Supports IEEE 802.3az Green Energy Efficient Ethernet