

- 48 x Gigabit capable ports & 6 x 10G SFP+ ports
- 48 x Gigabit PoE+ capable ports with PoE power budget up to 400 watts (P2540x)/800 watts (P2540xh)
- VLAN configuration based on 802.1q tag, MAC address, and protocol
- Auto Voice VLAN and Auto Surveillance VLAN to optimize call and video quality
- Secure Local Network by 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- Authentication by local database, multiple RADIUS, and TACACS+ servers
- Support SNMP v1/v2c/v3, RMON, and Syslog for network monitoring
- Compliant with Switch Management of Vigor Router and VigorACS
- Support IPv6 with MLD Snooping, IPv6 ACL, and IPv6 DNS Resolver
- IEEE 802.3az (Energy-Efficient Ethernet) Compliant

Auto Surveillance & Voice VLAN

Recognize traffic from IP cameras and IP phones automatically and add CoS tag for QoS prioritization.

Access Control

VigorSwitch 2540x series supports ACL by IP/MAC and 802.1x port access control with RADIUS to filter unauthorized hosts.

ONVIF-Friendly

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Quality of Service

Improve the performance of critical traffic by prioritizing the traffic with CoS, DSCP, and IP Precedence tag.

Web-Based GUI

Easily manage and monitor the network through the web-based console with graphics showing ports and hardware status.

Multiple Admin Accounts

Multiple Admin accounts with two levels of administrator privilege.

Central Switch Management

Set up VLAN easily from the router and get a centralized hierarchy view of the switches.



General

- Up to 32K MAC Address Table
 - Dynamic Address
 - Static Address
- 16Mbit SRAM Packet Buffer
- Support Jumbo Frame 12KB
- Switching capacity 216Gbps
- Support 55 Mac address per interfaces
 - 54 ports + Management

Standard Compliance

- 802.3 10Base-T
- 802.3u 100Base-T
- 802.3ab 1000Base-TX
- 802.3ae 10GBase-X
- 802.3x Flow Control Capability
- 802.3 Auto-negotiation
- 802.3ad Port trunk with LACP
- 802.3az Energy Efficient Ethernet
- 802.1p/q Class of Service
- 802.1d Spanning Tree
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree
- 802.1x Port Based Network Access Control
- 802.1ab Link Layer Discovery Protocol (LLDP)
- 802.3ad QinQ
- 802.3af/802.3at (P2540x/xh)

IP Version

- IPv4 / IPv6

VLAN

- IEEE802.3Q Tag-base VLAN
- QinQ (Basic)
- General VLAN Registration Protocol
- Supports Following Types of VLANs
 - Voice VLAN (OUI Mode)
 - Surveillance VLAN (OUI Mode)
 - Protocol/MAC-based/Management VLAN
 - Port Isolation

QoS

- Support 8 Queues
- Class of Service
 - 802.1p CoS
 - DSCP
 - CoS-DSCP
 - IP Precedence
- Priority Queue Schedule
 - Weighted Round-Robin (WRR)
 - Strict Priority
- Rate Limit
 - Port-based (Ingress/Egress)
- Storm Control
 - Broadcast
 - Unknown Multicast
 - Unknown Unicast

Security

- DoS Defend
- Port Isolation (Protected Port)
- Access Control List
 - MAC/IPv4/IPv6
- Port Security
- IP Source Guard and ARP Inspection
- DHCP Snooping with Option 82
- Loop Protection

PoE (P2540x/xh)

- PoE Mode: Switch allocates sufficient power the PoE PD asked for, and dynamically distribute power to all devices.
- Status:
 - Current Used/Priority/Port Status
- Support per port PoE scheduling to turn on/off the PDs
- Auto-Checking
 - Check the link status of PDs
 - Reboot PDs if there is no response

Multicast

- Up to 256 Multicast Groups
- IGMP Snooping v2/v3 (BISS)
- MLD Snooping v1/v2 (BISS)
- Multicast VLAN Registration

Diagnostics

- CPU/RAM/Port Utilization
- Port-based Cable Test
- Syslog
 - Volatile/Non-Volatile Memory
 - External Server
 - Mail
- Port Mirroring
- Ping

Network Function

- DHCP Server
 - Supports 8 Subnet
 - Up to 1023 pool of each Subnet
 - Relay *
 - Snooping
 - IP Source Guard
 - Option 82,66,67
- Route
 - Static
 - VLAN Route
- Virtual Router Redundancy Protocol (VRRP) *

Link Aggregation

- Support 8 Link Aggregation Groups with Static & LACP types
 - Up to 8 Ports for Each Group
- Support Traffic Load Balancing

Management

- Virtual Stacking (Single IP Management) *
- ONVIF
- Access Manager
 - HTTP/HTTPS
 - Telnet
 - SSH
- OpenVPN
- TR069
- sFlow
- Multiple User Account
 - Two-Level Security (Admin/User)
- HTTP(s) Web User Interface
- HTTP(s)/TFTP Upgrade/Backup of
 - Firmware
 - Configuration
- Dual Image
- Running/Startup/Backup Configuration
- Simple Network Time Protocol
- Link Layer Discovery Protocol
 - LLDP-MED, Media Endpoint Discovery Extension
- DrayTek Switch Management
 - VigorConnect/ACS/SWM
- Command Line Interface (CLI) via Telnet/SSH
 - Telnet Timeout
- Simple Network Management Protocol v1/v2c/v3

Hardware Interface

- 48 x 10/100/1000Mbps Giga Ethernet, RJ-45 (G2540x)
- 48 x 10/100/1000Mbps Giga Ethernet with PoE+ PSE, RJ-45 (P2540x/xh)
- 6 x 1000Mb/10Gb Ports, SFP+
- 1 x Slide Switch to swap the Port/PoE LED (P2540x/xh)
- 1 x Factory Reset Button
- 1 x Console Port, RJ45

Environmental / Physical

- Temperature
 - Operating: 0 ~ 50°C
 - Storage: -20 ~ 70°C
- Humidity
 - Operating: 10 to 90% RH (Non-condensing)
 - Storage: 5 to 90% RH (Non-condensing)

*Firmware Upgradeable