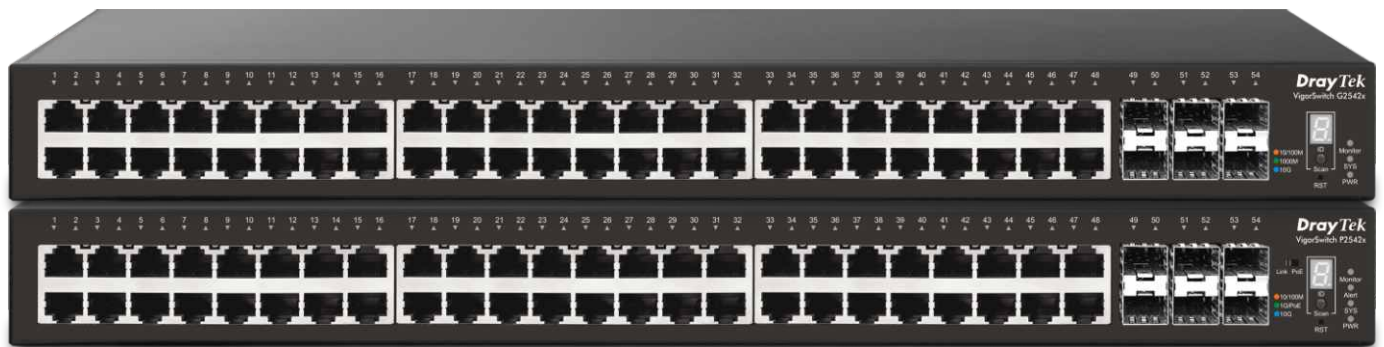


The DrayTek VigorSwitch 2542x Series features 48 Gigabit Ethernet ports for LAN and 6 SFP+ 10Gbps fiber links. The inclusion of both DC and AC power inputs offers greater deployment flexibility. Supporting advanced Layer 3 features, including DHCP Server and VLAN Routing, the VigorSwitch 2542x Series enhances network efficiency and ensures your LAN continues to operate even when the gateway is offline, making it an ideal core switch for SMEs/SMBs.



### General

- 16Mbit SRAM Packet Buffer
- Support Jumbo Frame 12KB
- Switching Capacity 216Gbps
- Up to 32K MAC Address Table
- Support 55 Mac Address per Interfaces

### Standard Compliance

- 802.3 10Base-T
- 802.3u 100Base-T
- 802.3ab 1000Base-T
- 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/at (P2542x/P2542xh)

### IP Version

- IPv4 / IPv6

### Multicast

- Up to 1024 Multicast Groups
- IGMP Snooping v2/v3 (BISS)
- MLD Snooping v1/v2 (BISS)
- Multicast VLAN Registration
- 4K Forwarding Table

### Security

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

### PoE (P2542x/P2542xh)

- 400 Watt Power Budget (P2542x)
- 680 Watt Power Budget (P2542xh)
- 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

### Link Aggregation

- Support 8 Link Aggregation Groups with Static & LACP types
  - Up to 8 Ports for Each Group
- Support Traffic Load Balancing
- In Stacking\*
  - 128 groups with up to 4 stacking port members

### Stacking\*

- Support up to 4 Stackable Devices
- Stacking Topologies
- Stacking Port (49-54)
- Stacking ID Display (Single-Digit 7 Seg.)

### Diagnostics

- CPU/RAM/Port Utilization
- Port-based Cable Test
- Syslog
  - Volatile/Non-Volatile Memory
  - External Server
  - Mail
- Port Mirroring
- Ping
- DHCP/Route Table
- Fan Test (For has Fan Model)

### VLAN

- IEEE802.1Q VLAN
  - Tag-based/Port-based
- 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

## Network Function

- DHCP Server
  - Will expand to 30 entries
  - Support 8 Subnets
  - Up to 1021 pool of each Subnet
  - Relay
  - Snooping
  - IP Source Guard
  - Option 82,66,67
- Route
  - Static/VLAN Route
- Virtual Router Redundancy Protocol (VRRP) \*

## 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/Unicast
- Support 12 Egress Queues for Stacking Port

## Management

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

## OpenFlow

- Version: 1.3
- Table Size: 1920

\*The OpenFlow functionality is project-based and must be activated by DrayTek HQ. Please contact your Sales for further inquiries.

## Hardware Interface

- G2542x:
  - 48 x 10/100/1000Mbps ports, RJ-45
  - 6 x 1000Mbps/10Gbps Fiber ports
- P2542x & P2542xh:
  - 48 x 10/100/1000Mbps ports with PoE, RJ-45
  - 6 x 1000Mbps/10Gbps Fiber ports
  - 1 x Slide Switch to Swap the Port/PoE Function
- 1 x Factory Reset Button
- 1 x Console Port, RJ45
- 1 x Stacking Button
- 1 x Stack ID 7 Segment LED

## 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)

\*Future Support