

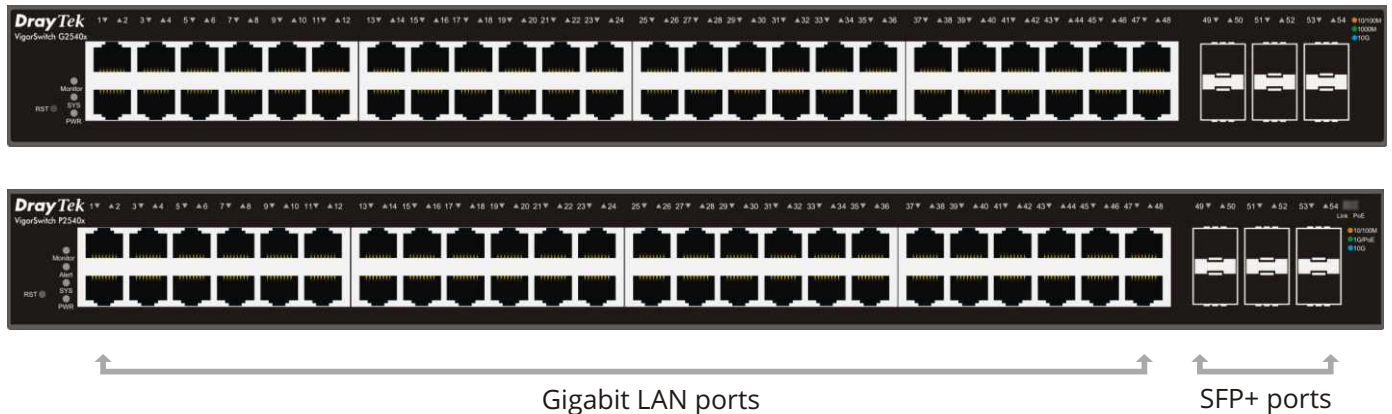
# DrayTek

## VigorSwitch 2540x Series

54-Port Layer 2+ Managed 10G Switch



DrayTek VigorSwitch 2540x series is a Layer 2+ Managed 10 Gbps switch with 48 Gigabit Ethernet ports and 6 x SFP+ 10Gbps Fiber links. Supporting advanced Layer 3 features, DHCP Server and VLAN Routing. Moreover, it supports VLAN routing to route the inter-VLAN traffic directly, shares loads of the router, and improve overall network performance.



### Interface

|              |   |
|--------------|---|
| LAN Port     | 48 x 10/100/1000Mbps Ethernet, RJ-45<br>6 x 1000Mbps/10Gbps SFP+ slot |
| Slide Switch | 1 (Port/PoE LED)(P2540xs)   |
| Console Port | 1 x RJ-45   |
| Button       | 1 x Factory Reset   |

### Capacity

|                    |                                     |
|--------------------|-------------------------------------|
| Buffer Size        | 16 Mbit                             |
| Switching Capacity | 216 Gbps                            |
| Forwarding Rate    | 160.7 Mpps (64 bytes)               |
| MAC Address Table  | 32k                                 |
| Jumbo Frame        | Up to 12KB                          |
| L3 Routing Table   | 12k Static Route + 12k Prefix Route |

### PoE (P2540xs)

|                     |   |
|---------------------|---|
| PoE Capable Ports   | 48                                      |
| PoE Standards       | PoE/PoE+ (802.3af/802.3at), Type mode A |
| PoE Power Budget    | 400 watts                               |
| Power Limit         | •                                       |
| Scheduled On/Off    | •                                       |
| Power Cycle on Port | Manual, Ping Watchdog                   |

### OpenFlow

|                     |      |
|---------------------|------|
| OpenFlow Version    | 1.3  |
| OpenFlow Table Size | 1920 |

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

## Networking Standards

|                    |  |
|--------------------|--|
| IP Version         | IPv4, IPv6   |
| Ethernet Standards | 802.3af PoE, 802.3at PoE+ (P2540x/xs)<br>802.3 10Base-T<br>802.3u 100Base-T<br>802.3ab 1000Base-T<br>IEEE802.3ae 10GBase-X<br>802.3x Flow Control<br>802.3 Auto-Negotiation<br>802.1q Tag-based VLAN<br>802.1p Class of Service<br>802.1d STP<br>802.1w RSTP<br>802.1s MSTP<br>802.3ad LACP<br>802.1ad QinQ<br>802.1x Port Access Control<br>802.1AB LLDP<br>802.3az EEE |

## VLAN

|                    |   |
|--------------------|---|
| Max.Number of VLAN | 256   |
| VLAN Type          | 802.1q Tag-based<br>MAC-based<br>Protocol-Based<br>Management VLAN<br>Voice VLAN<br>Surveillance VLAN |
| 802.1x Guest VLAN  | •   |
| Port Isolation     | •   |
| GVRP               | •   |
| Q-in-Q             | Basic   |

## ONVIF Surveillance

|                           |   |
|---------------------------|---|
| Discovery                 | •   |
| Surveillance Topology     | •   |
| Real-Time Video Streaming | •   |
| ONVIF Device Maintenance  | Device Info, Reset Factory Default, Time Settings, Reboot |

## Security

|                                  |   |
|----------------------------------|---|
| Access Control List              | MAC, IPv4, IPv6                               |
| Storm Control                    | Broadcast, Unknown Multicast, Unknown Unicast |
| DoS Defense                      | •   |
| 802.1x Port Access Control       | •   |
| IP Source Guard                  | •   |
| IP Conflict Detection/Prevention | •   |
| Loop Protection                  | •   |
| Dynamic ARP Inspection           | •   |
| DHCP Snooping with Option 82     | •   |

## Link Aggregation

|                                     |                             |
|-------------------------------------|-----------------------------|
| Max. Number of Group                | 8                           |
| Max. Number of Member in Each Group | 8                           |
| Type                                | Static, LACP                |
| Traffic Load Balancing              | MAC Address, IP/MAC Address |

## QoS

|                        |   |
|------------------------|---|
| Number of QoS Queues   | 8   |
| Queue Scheduling       | SPQ, WRR                                  |
| CoS (Class of Service) | 802.1p CoS, DSCP, CoS-DSCP, IP Precedence |
| Rate Limit & Shaping   | •   |

## Layer 3 Features

|              |   |
|--------------|---|
| Static Route | • |
| VLAN Route   | • |
| DHCP Server  | • |

## Multicast

|                                   |                |
|-----------------------------------|----------------|
| IGMP Snooping                     | v2, v3 (BISS)  |
| IGMP Querier                      | •              |
| MLD Snooping                      | v1, v2 (Basic) |
| Max. Number of Multicast Group    | 256            |
| Group Throttling                  | •              |
| Group Filtering                   | •              |
| MVR (Multicast VLAN Registration) | •              |

## Management

|                             |  |
|-----------------------------|--|
| Web Interface               | HTTP, HTTPS  |
| Command Line Interface      | Telnet, SSH v2                                       |
| OpenVPN Client              | Certificate-based authentication                     |
| User Authentication         | Local Database, RADIUS, TACACS+                      |
| sFlow                       | •  |
| SNMP                        | v1, v2c, v3  |
| Private MIB                 | •  |
| RMON Group                  | 1, 2, 3, 9   |
| LLDP                        | LLDP-MED, Media Endpoint Discovery Extension         |
| Mail Alert                  | Port Status, Port Speed, System Restart, IP Conflict |
| Syslog                      | •  |
| 2-Level Admin Privilege     | •  |
| Multiple Admin Accounts     | •  |
| Managed by Vigor Router SWM | •  |
| Managed by VigorConnect     | •  |
| Managed by VigorACS 2       | •  |
| Config File Export/Import   | •  |
| Dual Image                  | •  |
| SNTF                        | •  |
| Diagnostics Tools           | Port Mirroring, Ping, Cable Test                     |

## Physical

|                       |                          |
|-----------------------|--------------------------|
| Operating Temperature | 0 to 50°C                |
| Storage Temperature   | -20 to 70°C              |
| Operating Humidity    | 10 to 90% non-condensing |
| Storage Humidity      | 5 to 90% non-condensing  |

|                       | PoE | OpenFlow |
|-----------------------|-----|----------|
| G2540xs (Standard)    |     |          |
| G2540xs (By project*) |     | •        |
| P2540xs (Standard)    | •   |          |
| P2540xs (By project*) | •   | •        |

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