# 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.

Gigabit LAN ports   SFP+ ports
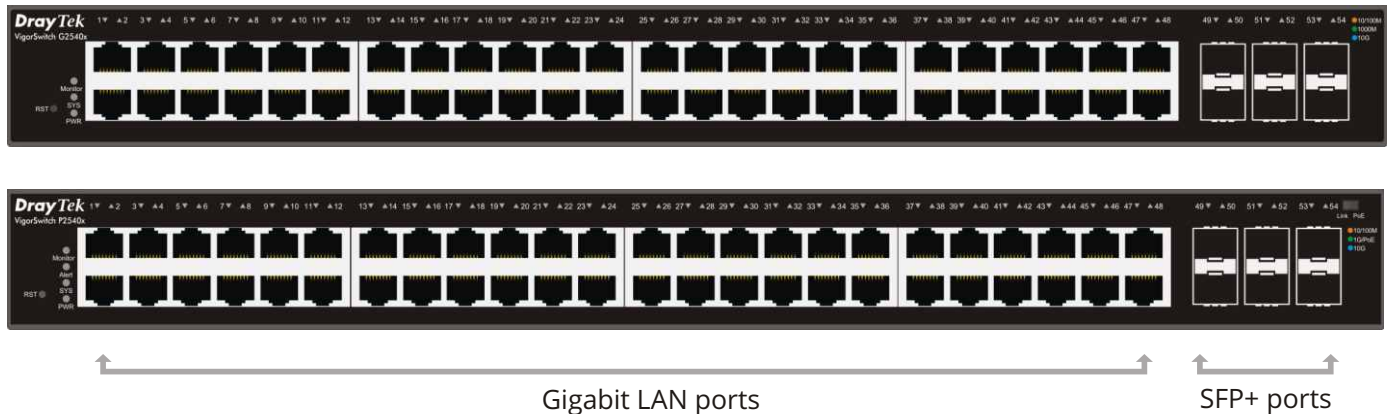
Interface

LAN Port	48 x 10/100/1000Mbps Ethernet, RJ-45
	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

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.

Networking Standards

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

VLAN

Max.Number of VLAN	512
VLAN Type	802.1q Tag-based
	MAC-based
	Protocol-Based
	Management VLAN
	Voice VLAN
	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	●
SNTP	●
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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