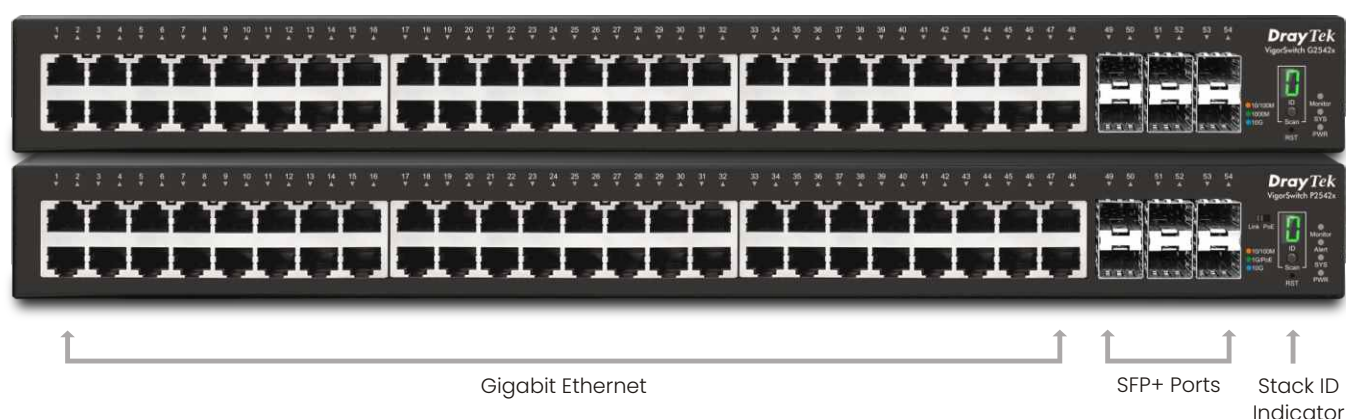


VigorSwitch 2542x Series

54-Port Layer 2+ Managed 10G Switch



The DrayTek VigorSwitch 2542x series features 48 Gigabit Ethernet ports for LAN and 6 SFP+ 10Gbps fiber links. With advanced Layer 3 capabilities, including DHCP Server and VLAN Routing, the VigorSwitch 2542x series optimizes network performance and keep your LAN operating even if the gateway goes offline, making it an excellent core switch for SMEs/SMBs. The PoE model P2542x/P2542xh has 48 PoE/PoE+ ports for powering access points, IP cameras, and other PoE devices.



Interface

LAN Port	48x 10/100/1000Mbps Ethernet, RJ-45 6x 1000Mbps/10Gbps SFP+ slot
Console Port	1x RJ-45
Button	1x Factory Reset 1x Stacking
DC Power Socket (Backup Usage)	•
Slide Switch	1 (Link/PoE)(P2542x/P2542xh)

Performance

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

PoE (P2542x/P2542xh)

PoE+ (802.3af/at) Ports	48
PoE Power Budget	400 watts (P2542x) 680 watts (P2542xh)
Scheduled On/Off	•

Layer 3 Features

Static Route	•
VLAN Route	•
DHCP Server	•

Stacking

Max. Stackable Devices	4
Stacking Topology	Line, Ring

Standard Compliance

Ethernet Standards	802.3af PoE/802.3at PoE+ (P2542x/xh)
	802.3 10Base-T
	802.3u 100Base-T
	802.3ab 1000Base-T
	802.3ae 10GBase-T
	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

Spanning Tree

STP	•
RSTP	•
MSTP	•

Link Aggregation

Max. Number of Group	8
Max. Number of Member in Each Group	8
Type	Static, LACP
Traffic Load Balancing	•

VLAN

Max. Number of VLAN	512
VLAN Type	802.1q Tag-based MAC-based Protocol-based Management VLAN Voice VLAN Surveillance VLAN
GVRP	•
QinQ (Basic)	•

Multicast

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

ONVIF Surveillance

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

QoS

Number of QoS Queues	8
Queue Scheduling	SPQ, WRR
CoS (Class of Service)	CoS, DSCP, CoS-DSCP, IP Precedence
Rate Limiting	•

Security

Authentication Server	RADIUS, TACACS+
802.1X/MAC Authentication	•
IP Source Guard	•
Traffic Control	DoS Defense, Storm Control
Dynamic ARP Inspection (DAI)	•
DHCP Snooping	•
IP Conflict Prevention	•
Loop Protection	•

Management

Local Service	HTTP/HTTPS/Telnet/SSH v2
Config Backup/Restore	•
Dual Image	•
2-Level Administration Privilege	•
Access Control	Access List
OpenVPN Client	•
sFlow	•
SNMP	v1, v2c, v3
RMON Group	1, 2, 3, 9
SNTP	•
LLDP	•
LLDP-MED	•
Mail Alert	Port Status / Speed System Restart IP Conflict Hardware Monitor Device Check ONVIF IP Cam Snapshot
VigorRouter Management (SWM)	•
VigorACS Management	•

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