

# VigorSwitch G2500

## Fully Managed 50 Port Gigabit Switch



### Product Overview

The DrayTek VigorSwitch G2500 is a high-performance, fully managed Gigabit switch, with 44x Gigabit Ethernet ports, 4x GbE/SFP combo ports, 2x SFP ports, 1x console port and enterprise-level features that ensure reliability and simplified network management.

## Key Features & Benefits

### Designed for Centralised Management

Can be configured and monitored instantly through both the VigorACS cloud management platform and/or, a DrayTek Vigor router's central switch management.

**Benefits:** Saves time and money. Easily provision, monitor and manage remote sites without on-site IT or dedicated staff.

### IP Conflict Prevention

Prevents IP conflicts caused by a misconfigured or malicious host and blocks illegal DHCP traffic.

**Benefits:** Improves network stability and protects important servers from IP conflicts. Enables fast identification and exclusion of incorrectly configured devices.

### Security

**DHCP Snooping:** Limit DHCP server responses to only a specified port.

**IP Source Guard:** Protects against address spoofing.

**Access Control List:** Controls which packet types (IPv4, IPv6 & MAC) should pass between ports on the switch.

### Voice VLAN & Surveillance VLAN

Automatically assign VLANs and QoS configuration to devices with matching MAC address OUI upon connection to the switch.

**Benefits:** Allows easy prioritisation of VoIP and IP Camera traffic and more control when implementing security policies.

### Energy-Efficient Ethernet

IEEE 802.3az compliant to reduce power consumption of ports during periods of inactivity and low link utilisation.

**Benefits:** Reduces power consumption.

### Hardware Monitoring

It monitors and controls the switch's temperature, voltages and fan status. Integrated email notification alerts for voltage anomalies or temperature alarms.

**Benefits:** Prevents network failure. Ensures high availability.

## Premium. Reliable. Affordable

Affordable and easy to use, VigorSwitch G2500 delivers robust performance, and simplifies your growing networks.

Ideal for business networks with many devices.

## Perfect with:



VigorACS cloud management software



Any DrayTek router

# DrayTek VigorSwitch G2500

## Physical Interfaces/Controls:

- 44 10/100/1000BaseT Ethernet Ports (RJ-45 IEEE 802.3/3u/ab)
- 4 Selectable Ports (Nos. 45-48), use as either:
  - 10/100/1000BaseT (Gigabit) Ethernet or SFP (802.3z)
- 2 SFP Ports (100mbps / 1gbps)
- Console Port (RJ-45 physical, RS-232 electrical)

## VLAN:

- 802.1q Tag-based VLAN
- Port-based and MAC-based VLANs
- QinQ (Basic)
- GVRP
- Up to 4K VLANs (out of 4096 VLAN IDs)
- 802.1v Protocol-Based VLAN
- Voice VLAN (OUI Mode)
- Surveillance VLAN (OUI Mode)
- Protocol VLAN
- MAC-based VLAN
- Management VLAN

## QoS:

- Support 8 priority queues
- Port-Based rate control
- Priority queue schedule (WRR or Strict Priority)
- Class of Service:
  - 802.1p CoS SFP (802.3z)
  - DSCP
  - CoS-DSCP
  - IP Precedence (ToS)
- Rate Limit

## Network Security:

- Access Control Lists (ACL)
  - Up to 512 ACL Entries
  - Source and destination MAC
  - VLAN ID
  - IPv4/v6 address
  - Protocol
  - TCP/UDP port
- IP Source Guard
- Storm Control (Broadcast, Unknown Multicast, Unknown Unicast)
- DoS Attack protection
- AAA Authentication
- MAC Authentication
- Protected Port / Port Isolation
- Static Port Security
- Dynamic ARP Inspection
- DHCP Snooping with Option 82
- Loop Detection & Prevention

## Spanning Tree:

- Spanning Tree Protocol
- Rapid Spanning Tree Protocol
- Multiple Spanning Tree Protocol

## Link Aggregation:

- Combine multiple ports to increase bandwidth
- 16 Aggregation Groups
- Up to 8 ports in each group
- LACP or Static setup
- Supports traffic load balancing

## Networking Performance:

- Switching Capacity: 100Gbps
- Forwarding Rate: 74.4Mpps
- MAC Addresses Supported: 16K
- Jumbo Frames up to 12KB
- Packet Buffer size: 12M

## Multicast:

- Up to 256 multicast groups
- IGMP Snooping V2/V3 (BISS)
- IGMP V2/V3 Querier
- MLD Snooping V1/V2
- Multicast VLAN registration

## AAA:

- 802.1x – Single / Multiple
  - Port based
  - Mac Based
- Guest VLAN
- RADIUS / TACACS+ Authentication for Management

## Management:

- IPv4 & IPv6 Dual-Stack
- LLDP(802.1ab) + MED
- Web User Interface (HTTP or HTTPS)
- Firmware Upgrade/Backup by HTTP/HTTPS
- HTTP (Non-TLS) can be disabled for increased security
- Configuration Backup/Restore
- Factory Default
- System Reboot
- Dual Firmware Image (Active & Backup Firmware)
- Command Line Interface (CLI) via SSH/Telnet
- Console Port (RJ45) for CLI management
- DrayTek Switch Management support via router (requires router firmware support)
- VigorACS Compatible (TR-069)
- SNMP v1, v2c, v3 (with Generic Traps)
- RMON Groups 1, 2, 3, 9 (History, Statistics, Alarms, Events)

- NTP (Simple Network Time Protocol)

## Diagnostics:

- Port Status & Usage display
- PoE active display
- CPU/RAM Usage display
- Event Log via Syslog
- Port Mirroring
- Ping
- Port-based Cable Test

## Hardware Monitor:

- Remote Monitoring through VigorACS & Web Interface
- Data Recording & Graphing
- Temperature Monitoring
- Voltage Monitoring
- Power Saving Mode

## IPv4 Features:

- DHCP
- DNS Client

## IPv6 Features:

- Auto Configuration
- Static IPv6 Address & Prefix Length
- Static IPv6 Default Gateway
- IPv6 Neighbour Discovery (ND)
- IPv6 Duplicate Address Detection
- ICMPv6
- DHCPv6 Client

## General IEEE Standards Compliance:

- 802.3 10Base-T
- 802.3u 100Base-T
- 802.3ab 1000Base-T
- 802.3x Flow Control Capability
- 802.3 Auto-negotiation
- 802.1Q VLAN
- 802.1p 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 Port trunk with LACP
- 802.3az Energy Efficient Ethernet

## Operating Requirements

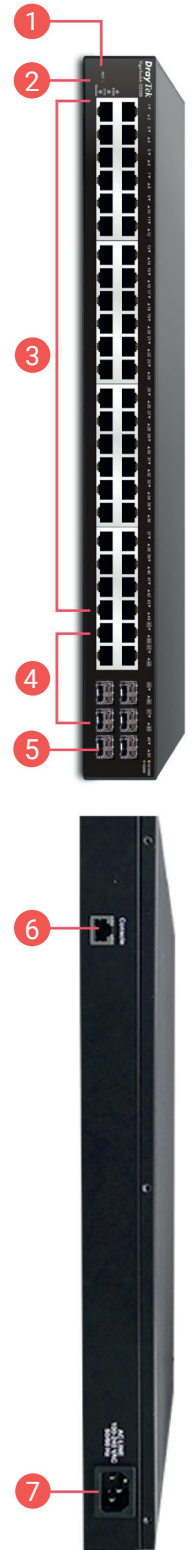
- Power Input Requirements: 220-240VAC
- Power supply: Internal
- Maximum Input Power Consumption: 31.4 Watts
- Operating Temperature: -0 °C to -45 °C
- Storage Temperature: -20 °C to -70 °C
- Operating Humidity: 10% to 90% RH (non-condensing)

## Physical Specifications:

- Dimensions: 441 x 270 x 45 mm (W x D x H)
- Rack mountable: 1U
- Brackets included for rack or wall mounting
- Weight: 5Kg (excluding SFP modules/cables)

## ROHS & CE Compliant

## Warranty: 2 Year Manufacturer's RTB



- 1 Reset button
- 2 LED indicator
- 3 44x Gigabit Ethernet
- 4 4x Gigabit Ethernet/SFP Combo
- 5 2x SFP Slot
- 6 Console Port
- 7 Power Socket