



Product Overview

The DrayTek VigorSwitch P2500 is a high port density, high-performance, managed Gigabit Ethernet switch with PoE+ that can be managed locally or centrally.

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.

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.

Energy-Efficient PoE

Smart power management & IEEE 802.3az compliant. If a non-PoE device is connected, that port's PoE power is turned off to avoid any potential damage to non-compliant devices.

Benefits: Reduces power consumption.

405W PoE Power Budget

Provides ample power through Ethernet, to each of its 44 PoE / PoE+ enabled Gigabit LAN ports.

Benefits: It can easily power a large number of IP cameras, IP phones, wireless APs and other PoE devices.

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.

Hardware Monitoring

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

Benefits: Prevents network failure. Ensures high availability.

Premium, Reliable, Affordable

VigorSwitch P2500 delivers robust performance, and simplifies your growing networks.

Ideal for business networks with many PoE devices.

Perfect with:







Any DrayTek router

DrayTek VigorSwitch P2500

- 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)

- PoE Specification:

 44-ports 802.3af & 802.3at (High Power) PoE PSE

 405 Watts Total Power Budget for PoE

 Auto Detection of Powered Device (PD) and Consumption Levels

 Per Port PoE Status LED Indicators

 Alert LED for high PoE Usage

 Port Power Consumption Monitoring via Web Interface & CLI

 PoE PD Scheduling (per port)

 PoE PD Priority (per port)

 PoE PD Status / Ping monitoring restart PoE PD port on no connectivity (per port)

 Circuit Protection to Prevent Power Interference between Ports

- 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

OoS

- 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
- DoS Attack protection
- AAA Authentication MAC Authentication

- MAC Authentication
 Protected Port / Port Isolation
 Static Port Security
 Dynamic ARP Inspection
 DHCP Snooping with Option 82
 Loop Detection & Prevention

- 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

- Up to 256 multicast groups IGMP Snooping V2/V3 (BISS)

- IGMP V2/V3 Querier
 MLD Snooping V1/V2
 Multicast VLAN registration

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

- Management:
 IPv4 & IPv6 Dual-Stack

- Web User Interface (HTTP or HTTPS)
 Firmware Upgrade/Backup by HTTP/HTTPS
 HTTP (Non-TLS) can be disabled for increased security

- 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) SNTP (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 Supports Email & LED alert on Fan failure

- Temperature Monitoring Voltage Monitoring Fan Control

- Fan Test Mode
- Power Saving Mode

IPv4 Features:

- DHCP DNS Client
- **IPv6 Features**

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

- 802.10 VLAN 802.1p Class of Service

- 802.1p Class of Service
 802.1d Spanning Tree
 802.1x 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
 802.3ar Energy Efficient Ethernet
 802.3af PoE
 802.3at PoE+

- Operating Requirements

 Power Input Requirements: 220-240VAC
 Power supply: Internal
 Maximum Input Power Consumption: 453.3 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 330 x 45 mm (W x D x H)
 Rack mountable: 1U
 Brackets included for rack or wall mounting
- Weight: 6.75Kg (excluding SFP modules/cables)
- Reset button
- LFD indicator
- 4x Gigabyte Ethernet/SFP Combo

44x Gigabit Ethernet

- 2x SFP Slot
- Link/PoE LED Slide Switch

Console Port

Power Socket

DrayTek VigorSwitch P2500

DrayTek's range of Vigor Switches run a dedicated Switch OS specifically designed to help businesses keep their network running smoothly and to provide the network engineers with the management tools they need to quickly investigate and troubleshoot network issues.

IP Conflict Prevention

- Improves network stability by preventing IP conflicts caused by a
- misconfigured or malicious host Helps administrators to spot port conflicts and IP clashes quickly so that they can take action.
- Protection for both IPv6 and IPv4

PoE Device Check

- Enables ping monitoring of all PoE devices with configurable actions on no response
 Cycles power on a PoE port and sends an e-mail alert if the
- device stops responding

- PoE Time Scheduling
 Set up schedule to turn PoE ports on/off periodically or at certain times of the day
 Use it to save power or to apply time-based access controls by
- turning off the device

Hardware Monitor

- Dynamically changes the fan speed according to the
- temperature to keep noise to a minimum and reduce power consumption
- Provides statistics and real-time graphics Gives alerts via email or the LED front panel

Multiple Admin Accounts

- Create multiple admin accounts and set two levels of admin privilege
- Use internal user accounts, or centrally through RADIUS or TACACS+

QoS (Quality of Service)

Prioritise important traffic using CoS, DSCP and IP Precedence tags

Auto Surveillance VLAN

Automatically recognises traffic from IP Cameras and IP Phones to automatically add QoS prioritsation

- MDL Snooping to control and route traffic more efficiently IPv6 ACL so that IPv6 isn't a security blind spot on the network IPv6 DNS resolver

Central Management

- Monitoring
 Provisioning
 Centralised hierarchy View of multiple switches
 Reboot device remotely
- Scheduled Maintenance Reports

Link Aggregation - Port Trunking

Use two or more 1Gbps ports to connect the VigorSwitch to another switch or server. Traffic can be shared between the two ports, effectively doubling the bandwidth of the uplink and providing resilience should one of the links fail.

Diagnostics tools to help the network engineer including cable tests, ping tests, syslog and port status

