VigorSwitch P2100 & G2100

8-Port Gigabit Layer 2+ Managed Switch with 2 SFP Uplink Ports





Product Overview

The VigorSwitch P2100 & G2100 are high-performance, Layer 2+ Managed Ethernet switches. With 8 RJ-45 Gigabit LAN ports, they are ideal for adding network ports to a DrayTek Vigor router. The enterprise-level features allow businesses to improve network stability and security.

The VigorSwitch P2100 is able to power your network devices via Power over Ethernet, with a generous 140-watt power budget to provide power to each of its 8 PoE / PoE+ enabled Gigabit LAN ports.

The VigorSwitch G2100 & P2100 work superbly in standalone mode, but designed for remote management, and can be provisioned and monitored by one of DrayTek's central management platforms. These platforms include the VigorACS management platform, VigorConnect on-site management and DrayTek's router-based switch management. Each contain tools thatallow users to drastically reduce the setup time required for a complex network and configure an entire DrayTek network remotely.

Key Features & Benefits

Great Security Features

Protect your network against unauthorised access and network problems with DrayTek's IP Conflict Prevention, 802.1X port authentication, DHCP Snooping, and Access Control Lists. Check the features sections for more information.

Benefits: Secure & control access to your network.

Advanced Layer 2+ Routing Features

Expand your network with support for Layer 3 features such as Static Routes and VLAN Routing, to connect separate networks through the VigorSwitch.

Benefits: Provides a fast and secure bridge between networks.

Rack Mountable & Silent

Fit the VigorSwitch G2100 & P2100 with the included rack mounting kit into any standard 19" rack. Fanless and silent, these switches are ideal for use in a quiet office or home environment.

Benefits: Flexible installation. Quiet in operation.

Smart Power over Ethernet

The VigorSwitch P2100 provides ample power through Ethernet to each of its 8 PoE / PoE+ enabled Gigabit LAN ports. PoE scheduling, priority & Device Check features ensure your PoE devices are powered and working.

Dray Tek

Benefits: Power and manage IP cameras, IP phones and Wireless APs.

IP Camera Management

Manage IP Cameras easily with detection and management of ONVIF cameras. Use PoE Device Check, auto-generated IP Camera topology and Camera Snapshots to detect & troubleshoot problems.

Benefits: Easily configure, deploy & manage connected IP Cameras.

Manage Centrally or Stand-Alone

Configure and monitor the switch through the VigorACS cloud management platform, DrayTek's Central Switch Management for Vigor routers, or directly via the device's Web Interface.

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

Compatible with VigorACS Centralised Management Platform



Key Specification

- VigorSwitch P2100 only: PoE+ on all RJ-45 ports

- Cloud Managed with VigorACS, or standalone operation
- **ONVIF IP Camera Surveillance Management with Device Check**
- VLAN Routing & Static Route with DHCP server / relay
- QoS for Application traffic prioritisation
- Access Control List (ACL) Port Security
- IPv4 and IPv6 Support with DrayTek's IP Conflict Prevention system
- Console Port



Technical Specification (UK Hardware Spec.)

Email: info@draytek.co.uk Telephone: +44 345 5570 007 Specifications, content and product availability are subject to change and may differ from country to country. Actual Performance may vary depending on applications, usage, environment and other factors Full specifications are available at https://www.draytek.co.uk

Physical Interfaces

- 8 RJ-45 Ethernet Ports 10/100/1000Mbps
- 2 SFP Ports 1000Mbps
- Console Port (RJ-45 physical, RS-232 electrical)
- Factory Reset Button

- PoE Specification (VigorSwitch P2100 only)
 8 Power over Ethernet LAN ports PoE PSE Mode A
 IEEE 802.3af PoE & 802.3at PoE+ (High Power) compliant
- 140 Watts Total Power Budget for Poe
- Up to 30 watts per port
- Auto Detection of Powered Device (PD) and Consumption Levels
- Per Port PoE Status LED Indicators
- Alert LED and Mail Alert for high PoE Usage
- Port Power Consumption Monitoring via Web Interface & CLI Circuit Protection to Prevent Power Interference between
- Ports
- PoE PD Monitoring & Maintenance Features (per port) Scheduling
 - PoE PD Priority
 - Restart PoE PD if not responding to ping
 - Restart PoE IP Camera if not providing camera output

VLAN

- 802.1q Tag-based VLAN
- Port-based and MAC-based VLANs
- QinQ (Basic)
- GVRP General VLAN Registration Protocol
- Up to 256 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
- Port Isolation

QoS

- Support 8 priority queues
- Port-Based rate control (Ingress & Egress)
- Priority queue schedule (WRR or Strict Priority)
- Rate Limit
- Class of Service
- 802.1p CoS DSCP

 - CoS-DSCP
- IP Precedence ToS

Network Security

- IP Source Guard with ARP inspection
- 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
- Access Control Lists (ACL)
 - Up to 512 ACL Entries Source and destination MAC
 - VI AN ID
 - IPv4/v6 address
 - Protocol
 - TCP/UDP port

Spanning Tree

- Spanning Tree Protocol (STP)
- Rapid Spanning Tree Protocol (RSTP) Multiple Spanning Tree Protocol (MSTP)

Link Aggregation

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

- Networking Performance

 Switching Capacity: 20Gbps
 Forwarding Rate: 14.88Mpps (64 bytes)
- Jumbo Frames up to 9KB
- Packet Buffer size: 4.1Mbit

Multicast

- Up to 256 multicast groups
- Multicast Group Filtering / Throttling IGMP Snooping V2/V3 (BISS)

RADIUS Authentication 802.1X

• 802.1X Single/Multi

Port based Authorisation

AAA (Authentication, Authorisation, Accounting)
 RADIUS / TACACS+ Authentication for Management

MAC / Inaccessible Authentication bypass

- IGMP V2/V3 Querier
- Multicast VLAN registration MLD Snooping V1/V2
- Immediate Leave Report Suppression IGMP/MLD Querier

Multiple AAA Server

Accounting

Guest VLAŇ

Dray Tek

Technical Specification (UK Hardware Spec.)

- MAC-based
- Web-based
- Attribute Assignment
- User Privilege
- VLAN
- TACACS+ Authentication
- Port Authorisation
- Accounting
- ONVIF Surveillance Management
 Discovery of ONVIF-compliant IP Cameras
- Surveillance Topology
- Real-Time Video Streaming
- **ONVIF Device Maintenance**
 - **Device Information**
 - Network Settings Configuration
 - **Time Settings**
 - Reboot
 - Reset to Factory Default Settings
 - Ping Check with Mail Alert on disconnection

Management

- Central Management VigorACS

 - VigorConnect Vigor Router Switch Management (requires router firmware support) 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
- Command Line Interface (CLI) via SSH/Telnet Console Port (RJ45) for CLI management
- OpenVPN Client with Certificate-based auth
- SNMP v1, v2c, v3 (with Generic Traps) RMON Groups 1, 2, 3, 9 (History, Statistics, Alarms, Events) SNTP (Simple Network Time Protocol)

EAN

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Diagnostics

- Port Status & Usage display
- CPU/RAM Usage display
- MAC Address Table
- **Device Check**
- Syslog
- Mail Alert
 - Port Status
 - Port Speed Change
 - System Restart
 - Device Check
 - **IP** Conflict
 - **ONVIF IP Camera Snapshot**
- Port Mirroring
- Ping Diagnostics Port-based Cable Test

UK Product code

VSG2100-K

VSP2100-K

Layer 3 Networking Features

- Static Route
- VLAN Routing DHCP Server (from firmware 2.6.8)

IPv4 Features DHCP Client DNS Client

- DHCP Server (from firmware 2.6.8) Up to 8 subnets
 - Option 82, 66, 67

 - DHCP Relay DHCP Snooping DHCP IP Source Guard

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

- 802.3af PoE
- 802.3at PoE+ 802.3 10Base-T
- 802.3u 100Base-T 802.3ab 1000Base-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
- Operating Requirements Power Input Requirements: 100-240VAC

Physical Specifications

Dimensions:

Weight:

Box Contents

Product name

VigorSwitch G2100 (UK/IE)

VigorSwitch P2100 (UK/IE)

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Rack mountable: 1U

1U Rack Mount Fittings

Warranty: 2 Year Manufacturer's RTB

Quick Start Guide **ROHS & CE Compliant**

- Power supply: Internal
 Maximum Input Power Consumption:
 VigorSwitch G2100: 18 Watts
 VigorSwitch P2100: 164.3 Watts
- Cooling: Passively cooled
- Operating Temperature: 0 °C to 50 °C Storage Temperature: -20 °C to 70 °C Operating Humidity: 5% to 90% RH (non-condensing)

VigorSwitch G2100: 1.78 kg (3lb)

VigorSwitch P2100: 2.61kg (5lb)

VigorSwitch G2100 / P2100 Network Switch UK IEC13 Power Cable

VigorSwitch G2100: 270 x 181 x 44 mm (W x D x H)

VigorSwitch P2100: 319 x 208 x 44 mm (W x D x H)

Product description

8-port Gigabit L2+ Managed switch

with 2 SFP Uplink ports 8-port Gigabit L2+ Managed PoE+ switch

with 2 SFP Uplink ports