

DrayTek VigorSwitch VSP2100-K 8+2 Port PoE Gigabit Switch



Product Name: DrayTek VigorSwitch VSP2100-K 8+2 Port PoE Gigabit Switch

Manufacturer: Draytek

Model Number: VSP2100-K

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The DrayTek VigorSwitch VSP2100-K is a high-performance, Layer 2+ Managed POE Ethernet switch. With 8 RJ-45 Gigabit LAN ports, it is 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.

DrayTek VigorSwitch VSP2100-K Key Features

- 8 x RJ-45 Gigabit Ethernet Ports
- PoE+ on all RJ-45 ports
- 140-watt Power-over-Ethernet budget
- 2 x SFP Gigabit Ports for Uplink / Fibre
- Cloud Managed with VigorACS, or standalone operation
- ONVIF IP Camera Surveillance Management with Device Check
- 802.1q VLANs with Dynamic MAC-based, Voice & Surveillance VLAN
- VLAN Routing & Static Route with DHCP server / relay
- QoS for Application traffic prioritisation
- 802.1x RADIUS / TACACS+ Port Authentication with Accounting
- Access Control List (ACL) Port Security
- IPv4 and IPv6 Support with DrayTek's IP Conflict Prevention system
- Console Port Rack mountable with fittings included

The VigorSwitch P2100 works superbly in standalone mode, but designed for centralised management, it can be provisioned and monitored by one of DrayTek's central management platforms. These include the VigorACS management platform, VigorConnect on-site management and DrayTek's router-based switch management. These platforms allow you to drastically reduce the setup time required for a complex network and configure an entire DrayTek network remotely.

DrayTek VigorSwitch VSP2100-K Technical Specifications

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

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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 - VLAN 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

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

AAA (Authentication, Authorisation, Accounting)

- RADIUS / TACACS+ Authentication for Management
- Multiple AAA Server
- MAC / Inaccessible Authentication bypass
- RADIUS Authentication 802.1X - Accounting - Guest VLAN
- Port based Authorisation - 802.1X Single/Multi- 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)

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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

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

DrayTek VigorSwitch VSP2100-K 8+2 Port PoE Gigabit Switch

• 802.1AB LLDP
• 802.3az EEE

Operating Requirements

• Power Input Requirements: 100-240VAC
• 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)

Physical Specifications:

• Rack mountable: 1U
• Dimensions: - 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)
• Weight: - VigorSwitch G2100: 1.78 kg (3lb) - VigorSwitch P2100: 2.61kg (5lb)

Box Contents:

• VigorSwitch P2100 Network Switch
• UK IEC13 Power Cable
• 1U Rack Mount Fittings
• Quick Start Guide

Price: Â£161.10