



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

Manufacturer: Draytek
Model Number: VSP2100-K

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

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

ï¿1/2 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

آذِيً Cloud Managed with VigorACS, or standalone operation

าั¿½ ONVIF IP Camera Surveillance Management with Device Check

آذِرًا \$02.1q VLANs with Dynamic MAC-based, Voice & Surveillance VLAN

آذِرُ VLAN Routing & Static Route with DHCP server / relay

าั¿½ QoS for Application traffi c prioritisation802.1x RADIUS / TACACS+ Port Authentication with Accounting

ï¿1/2 Access Control List (ACL) Port Security

17:1/2 IPv4 and IPv6 Support with DrayTek's IP Confl ict Prevention system

า๊¿½ Console PortRack 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:

าั¿1/2 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

آذِر IEEE 802.3af PoE & Det (High Power) compliant

� 140 Watts Total Power Budget for PoE

� Up to 30 watts per port

ī స్ట్రీ Auto Detection of Powered Device (PD) and Consumption Levels

� Per Port PoE Status LED Indicators

า๊¿½ Alert LED and Mail Alert for high PoE Usage

12/2 Port Power Consumption Monitoring via Web Interface & Damp; CLI

آذِيًّ Circuit Protection to Prevent Power Interference between Ports

آذِاً PoE PD Monitoring & Maintenance Features (per port)

ī సైస్ Scheduling -PoE PD Priority- Restart PoE PD if not responding to ping- Restart PoE IP



### Camera if not providing camera output

#### VLAN:

- ï¿⅓ 802.1q Tag-based VLAN
- � Port-based and MAC-based VLANs
- � QinQ (Basic)
- าั¿½ GVRP General VLAN Registration Protocol
- $\ddot{i}\dot{\epsilon}$  Up to 256 VLANs (out of 4096 VLAN IDs)
- ï¿1/2 802.1v Protocol-Based VLAN
- ï¿1/2 Voice VLAN (OUI Mode)
- ï¿1/2 Surveillance VLAN (OUI Mode)
- آزِ1/2 Protocol VLAN
- � MAC-based VLAN
- ï¿⅓ Management VLAN
- � Port Isolation

#### QoS

- ï¿1/2 Support 8 priority queues
- i¿½ Port-Based rate control (Ingress & Egress)
- � Priority queue schedule (WRR or Strict Priority)
- ï¿⅓ Rate Limit
- Ti21/2 Class of Service 802.1p CoS DSCP CoS-DSCP IP Precedence ToS

## **Network Security**

- � IP Source Guard with ARP inspection
- ī సైస్త Storm Control (Broadcast, Unknown Multicast, Unknown Unicast)
- � DoS Attack protection
- � AAA Authentication
- � MAC Authentication
- � Protected Port / Port Isolation
- ï¿⅓ Static Port Security
- ï¿⅓ Dynamic ARP Inspection
- ï¿1/2 DHCP Snooping with Option 82
- � Loop Detection & Prevention
- � Access Control Lists (ACL)
- آز½ Up to 512 ACL Entries Source and destination MAC VLAN ID IPv4/v6 address Protocol
- TCP/UDP port

## Spanning Tree

- ï¿1/2 Spanning Tree Protocol (STP)
- i¿½ Rapid Spanning Tree Protocol (RSTP)
- � Multiple Spanning Tree Protocol (MSTP)

#### Link Aggretation

- า๊¿1/2 Combine multiple ports to increase bandwidth
- ï¿1/2 8 Aggregation Groups
- � Up to 8 ports in each group
- � LACP or Static setup
- ï¿1/2 Supports traffi c load balancing



### **Networking Performance**

- ï¿1/2 Switching Capacity: 20Gbps
- ï¿1/2 Forwarding Rate: 14.88Mpps (64 bytes)
- � Jumbo Frames up to 9KB � Packet Buff er size: 4.1Mbit

#### Multicast

- ï¿1/2 Up to 256 multicast groups
- � Multicast Group Filtering / Throttling
- ï¿1/2 IGMP Snooping V2/V3 (BISS)
- ï¿1/2 IGMP V2/V3 Querier
- � Multicast VLAN registration
- าั¿½ MLD Snooping V1/V2 Immediate Leave Report Suppression IGMP/MLD Querier

#### AAA (Authentication, Authorisation, Accounting)

- ī¿½ RADIUS / TACACS+ Authentication for Management
- ï¿1/2 Multiple AAA Server
- � MAC / Inaccessible Authentication bypass
- ī స్ట్రీ RADIUS Authentication 802.1X Accounting Guest VLAN
- าั¿½ Port based Authorisation 802.1X Single/Multi- MAC-based Web-based
- تز½ Attribute Assignment User Privilege VLAN
- 12.1/2 TACACS+ Authentication Port Authorisation Accounting

#### **ONVIF Surveillance Management**

- � Discovery of ONVIF-compliant IP Cameras
- ï¿1/2 Surveillance Topology
- � Real-Time Video Streaming
- ī¿½ ONVIF Device Maintenance- Device Information- Network Settings Configuration Time Settings Reboot Reset to Factory Default Settings Ping Check with Mail Alert on disconnection

#### Management:

- آذِا½ Central Management VigorACS VigorConnect Vigor Router Switch Management (requires router firmware support)
- � IPv4 & IPv6 Dual-Stack
- ï¿1/2 LLDP(802.1ab) + MED
- 17:1/2 Web User Interface (HTTP or HTTPS)
- เ<sub>2</sub>½ Firmware Upgrade/Backup by HTTP/HTTPS
- า๊¿½ HTTP (Non-TLS) can be disabled for increased security
- � Configuration Backup/Restore
- ï¿⅓ Factory Default
- ï¿1/2 System Reboot
- � Command Line Interface (CLI) via SSH/Telnet
- 12.1/2 Console Port (RJ45) for CLI management
- 17.1/2 OpenVPN Client with Certificate-based auth
- تز1/2 SNMP v1, v2c, v3 (with Generic Traps)
- � RMON Groups 1, 2, 3, 9 (History, Statistics, Alarms, Events)
- تز½ SNTP (Simple Network Time Protocol)



### Diagnostics:

� Port Status & Dry; Usage display

ï¿1/2 CPU/RAM Usage display

ï¿⅓ MAC Address Table

ï¿⅓ Device Check

ï¿⅓ Syslog

าะู่ 1⁄2 Mail Alert - Port Status - Port Speed Change - System Restart - Device Check - IP Conflict -

**ONVIF IP Camera Snapshot** 

آز½ Port Mirroring

� Ping Diagnostics

� Port-based Cable Test

#### Layer 3 networking features

ï¿1/₂ tatic Route

آز½ VLAN Routing

� DHCP Server (from firmware 2.6.8)

#### IPv4 features

� DHCP Client

� DNS Client

ī¿½ 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

ï¿⅓ Auto Configuration

ï¿⅓ Static IPv6 Default Gateway

� IPv6 Neighbour Discovery (ND)

� IPv6 Duplicate Address Detection

ï¿⅓ ICMPv6

� DHCPv6 Client

# General IEEE Standards Compliance

� 802.3af PoE

� 802.3at PoE+

� 802.3 10Base-T

ï¿⅓ 802.3u 100Base-T

ï¿1/2 802.3ab 1000Base-T

� 802.3x Flow Control

� 802.3 Auto-Negotiation

ï¿1/2 802.1q Tag-based VLAN

ï¿1/2 802.1p Class of Service

� 802.1d STP

� 802.1w RSTP

ï¿1/2 802.1s MSTP

� 802.3ad LACP

ï¿1/2 802.1ad QinQ

ï¿⅓ 802.1x Port Access Control



� 802.1AB LLDP � 802.3az EEE

## Operating Requirements

� Power Input Requirements: 100-240VAC

� Power supply: Internal

آزا Maximum Input Power Consumption- VigorSwitch G2100: 18 Watts - VigorSwitch P2100:

164.3 Watts

� Cooling: Passively cooled

า๊¿½ Operating Temperature: 0 °C to 50 °C

า๊ะู่ 1/2 Storage Temperature: -20 °C to 70 °C

าั¿½ Operating Humidity: 5% to 90% RH (non-condensing)

#### Physical Specifications:

� Rack mountable: 1U

ī¿½ 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)

ī¿½ 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: 200.65EUR**