

**DrayTek**

VigorSwitch P1282

PoE Web Smart 28-Port Gigabit Switch

Product Overview

The VigorSwitch P1282 is a high-performance, Smart Managed Gigabit Ethernet switch with 4 SFP uplink ports. With 24 PoE+ (Power over Ethernet) RJ-45 LAN ports, it's ideal for powering connected IP phones, IP cameras and wireless access points. The 400 watt PoE power budget provides ample power through Ethernet, to each of its 24 PoE / PoE+ enabled Gigabit LAN ports.

Key Features & Benefits

Manage Centrally or Stand-Alone

Configure and monitor the switch through the VigorACS cloud management platform, through VigorConnect, through a DrayTek Vigor router, or directly via the device's web interface.

Smart Power over Ethernet

Provides ample power through Ethernet to each of the 24 PoE / PoE+ enabled Gigabit LAN ports. PoE scheduling, priority & Device Check features ensure your PoE devices are powered and working.

Automatic VLAN Assignment

Voice, Surveillance and MAC VLANs dynamically assign VLANs to IP Phones, IP Cameras and more. Ensures the same network setup and Quality of Service regardless of where devices are plugged in.

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.

Useful Security Features

Protect your network against unauthorised access and network problems with IP Conflict Prevention, DoS Defence, Access Control Lists for IPv4, IPv6, MAC and IP Source Guard.

4 SFP Ports for Uplinks

Uplink to Fibre or direct-attach to additional switches, with 4x Gigabit SFP Ports. Connect switches over long distances with SFP Fibre modules.

Key Specification

24 x RJ-45 Gigabit Ethernet Ports with PoE+
4 x RJ-45 / SFP Gigabit Ethernet Ports
400-watt Power-over-Ethernet budget for demanding applications
Cloud Managed with VigorACS
802.1q VLANs with Dynamic MAC-based, Voice & Surveillance VLAN

ONVIF IP Camera Surveillance Management with PoE Device Check
Access Control List (ACL) for port & traffic level security
Port Mirroring & Link Aggregation
IGMP Snooping & Querying
IPv4 and IPv6 Support with IP Conflict Prevention

Full Specifications

Physical Interfaces:

- 24 RJ-45 Ethernet Ports – 10/100/1000Mbps
- Factory Reset Button
- 4 Selectable Ports (Nos. 25-28), use as either:
 - 10/100/1000BaseT (Gigabit) Ethernet
 - or SFP (1000M) Ports for Uplink / Fibre

VLAN:

- 802.1q Tag-based VLAN
- Port-based & MAC-based VLANs
- Up to 255 VLANs (out of 4096 VLAN IDs)
- Voice VLAN (OUI Mode)
- Surveillance VLAN (OUI Mode)
- Management VLAN
- Port Isolation (Protected Ports)

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

Spanning Tree:

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

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

PoE Specification:

- 24 Power over Ethernet LAN ports – PoE PSE Mode A
- IEEE 802.3af PoE & 802.3at PoE+ (High Power) compliant
- 400 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

Network Security:

- IP Source Guard with ARP inspection
- IP Conflict Prevention
- Storm Control (Broadcast, Unknown Multicast, Unknown Unicast)
- DoS Attack protection
- Protected Port / Port Isolation
- Static Port Security
- 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

Networking Performance:

- Switching Capacity: 56Gbps
- Forwarding Rate: 41.7Mpps (64 bytes)
- Jumbo Frames up to 9KB
- Packet Buffer size: 4.1Mbit
- MAC Address Table: 8000 entries



1 System Status Indicators

2 PoE & Activity Indicators

3 24x 1GbE PoE+ RJ-45 Ports

4 4x 1GbE RJ-45 Combo Ports

5 4x 1GbE SFP Combo Ports

Technical Specification (UK Hardware Spec.)

Multicast:

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

Management:

- Central Management
 - VigorACS
 - VigorConnect
 - Vigor Router Switch Management (requires router firmware support)
- IPv4 & IPv6 Dual-Stack
- Web User Interface
- Firmware Upgrade/Backup
- Configuration Backup/Restore
- Factory Default
- System Reboot
- 2-level Admin Privileges
- Multiple Admin Accounts
- Command Line Interface (CLI) via SSH/Telnet
- OpenVPN Client with Certificate-based auth
- SNMP v1, v2c, v3 (with Generic Traps)
- SNTP (Simple Network Time Protocol)
- LLDP(802.1ab) + MED

IPv4 Features:

- DHCP Client
- 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

Operating Requirements:

- Power Input Requirements: 100-240VAC
- Power supply: Internal
- Maximum Input Power Consumption: 450 Watts
- Cooling: Dual-Fan cooled
- Operating Temperature: 0 °C to 50 °C
- Storage Temperature: -20 °C to 70 °C
- Operating Humidity: 10% to 90% RH (non-condensing)

ROHS & CE Compliant

Warranty : 2 Year Manufacturer's RTB

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

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

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
- 802.3ad LACP
- 802.1x Port Access Control
- 802.1AB LLDP
- 802.3az EEE

Physical Specifications:

- Dimensions: 441 x 281 x 44 mm (W x D x H)
- Rack mountable: 1U
- Weight: 4.3 Kg