

**DrayTek**

VigorSwitch G1282

Web Smart 28-Port Gigabit Switch

Product Overview

The VigorSwitch G1282 is a high-performance, Smart Managed Gigabit Ethernet switch. With 24 RJ-45 Gigabit LAN ports, it's ideal for adding network ports to a DrayTek Vigor router, implementing complex networks with VLANs and adding port-level security with the switch's Access Control List.

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.

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.

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.

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.

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.

Rack Mountable & Silent

Fit the VigorSwitch G1282 with the included rack mounting kit into any standard 19" rack. The switch is fanless and silent, ideal for use in a quiet office environment.

Key Specification

24 x RJ-45 Gigabit Ethernet Ports
4 x RJ-45 / SFP Gigabit Ethernet Ports
Cloud Managed with VigorACS
802.1q VLANs with Dynamic MAC-based, Voice & Surveillance VLAN
ONVIF IP Camera Surveillance Management

Access Control List (ACL) for port & traffic level security
Port Mirroring & Link Aggregation
IGMP Snooping & Querying
IPv4 and IPv6 Support with IP Conflict Prevention
Centrally managed or standalone operation

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

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)

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

Multicast:

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

VLAN:

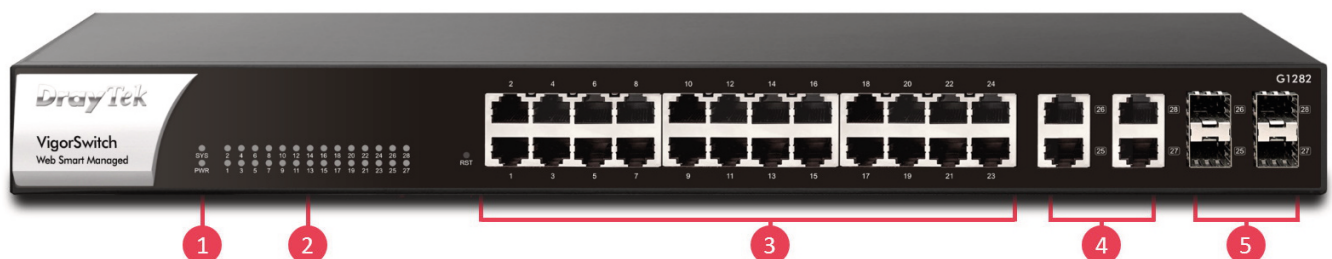
- 802.1q Tag-based VLAN
- Port-based & MAC-based VLANs
- Up to 255 VLANs (out of 4096 VLAN IDs)
- Voice VLAN (OUI Mode)
- Surveillance VLAN (OUI Mode)
- Management VLAN
- Port Isolation (Protected Ports)

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

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



1 System Status Indicators

2 Port Activity Indicators

3 24x 1GbE RJ-45 Ports

4 4x 1GbE RJ-45 Combo Ports

5 4x 1GbE SFP Combo Ports

Technical Specification (UK Hardware Spec.)

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:

- 802.3 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
- 802.1AB LLDP
- 802.3az EEE

Box Contents:

- VigorSwitch G1282 Network Switch
- UK IEC13 Power Cable
- 1U Rack Mount Fittings
- Quick Start Guide

ROHS & CE Compliant:

- Warranty
 - Two (2) Year Manufacturer's RTB
 - Optional VigorCare Enhanced Warranty Available
 - VigorCare C3 3 Year Subscription: VCARE-C3
 - VigorCare C5 5 Year Subscription: VCARE-C5

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)
- SNMP (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: 36 Watts
- Cooling: Passively cooled, no fan
- Operating Temperature: 0 °C to 50 °C
- Storage Temperature: -20 °C to 70 °C
- Operating Humidity: 10% to 90% RH (non-condensing)

Physical Specifications:

- Dimensions: 441 x 206 x 44 mm (W x D x H)
- Rack mountable: 1U
- Weight: 2.8 Kg