VigorSwitch G1085
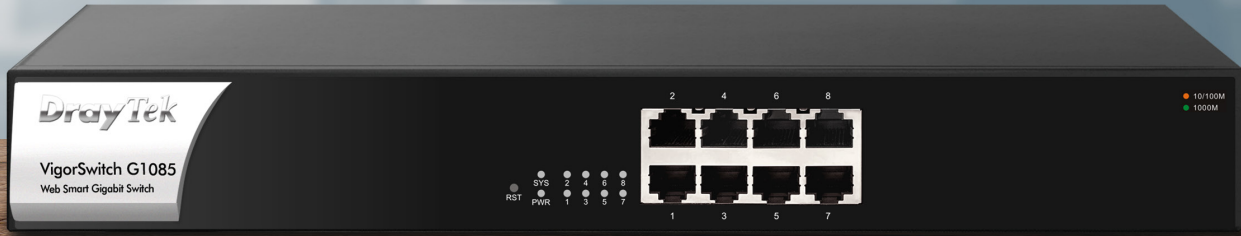
DrayTek

Enterprise-level, 8 port Gigabit managed switch.

Premium. Reliable. Affordable.

Product Overview

VigorSwitch G1085 is an 8 port Gigabit Managed switch with enterprise-level features to improve network stability and security for businesses that can be easily managed locally or centrally.

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.

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

IP Camera Management

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

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

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.

Benefits: Less time to install, move ports around without reconfiguring VLANs.

Link Aggregation & Port Trunking

With Link Aggregation, two or more ports can be bundled together to operate as one link, aggregating the traffic through the ports for increased speed and additional resilience to cable failures.

Benefits: Increased throughput and resilience for network uplinks.

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.
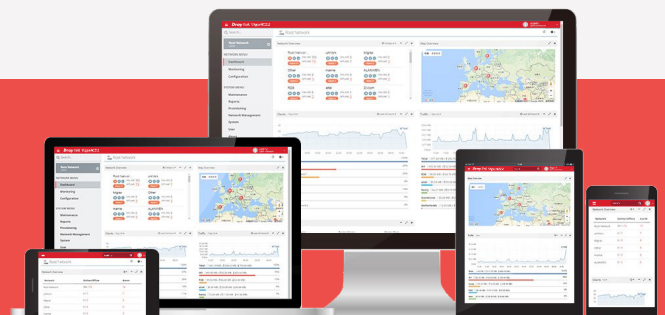
Benefits: Secure & control access to your network.

Rack Mountable & Silent

Fit the VigorSwitch G1085 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.

Benefits: Flexible installation. Quiet in operation.

Compatible with VigorACS Centralised Management Platform

Key Specification

- 8 x RJ-45 Gigabit Ethernet Ports
- Cloud Managed with VigorACS
- 802.1q VLANs with Dynamic MAC-based, Voice & Surveillance VLAN
- ONVIF IP Camera Surveillance Management
- QoS for application traffic prioritisation
- 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

Technical Specification (UK Hardware Spec.)

Physical Interfaces
- 8 RJ-45 Ethernet Ports – 10/100/1000Mbps
- Factory Reset Button

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)

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

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
- Loop Protection
- Access Control Lists (ACL)
    - Up to 512 ACL Entries
    - Source and destination MAC
    - VLAN ID
    - Pv4/v6 address
    - Protocol
    - TCP/UDP port

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

Networking Performance
- Switching Capacity: 16Gbps
- Forwarding Rate: 11.9Mpps
- Jumbo Frames up to 9KB

Networking Performance (cont.)
- Packet Buffer size: 4.1Mbit

Multicast
- IGMP Snooping V2/V3 (BISS)
- IGMP Querier V2/V3 (BISS)

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
- 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)

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

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

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
• 802.1x Port Access Control
• 802.1AB LLDP
• 802.3az EEE

Operating Requirements
• Power Input Requirements: 100-240VAC
• Power supply: Internal
• Maximum Input Power Consumption: 9 watts
• Cooling: Passively cooled
• Operating Temperature: 0 °C to 45 °C
• Storage Temperature: -20 °C to 70 °C
• Operating Humidity: 5% to 90% RH (non-condensing)
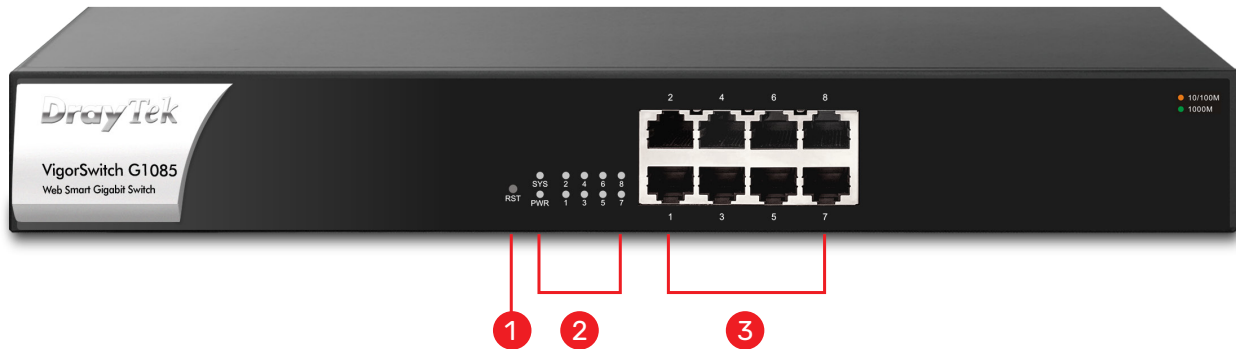
Box Contents
• DrayTek VigorSwitch G1085
• IEC C13 Mains Power Cable with UK Plug
• Rack Mounting Brackets & Screws
• Quick Start Guide

Physical Specifications
• Dimensions: 330 x 230 x 44 mm (W x D x H)
• Rack Mountable: 1U
• Weight: 1.83Kg

ROHS & CE Compliant
Warranty: 2 Year Manufacturer's RTB

1 Reset button   **2** LED Indicator   **3** 8x Gigabit Ethernet