

VigorSwitch G2280x

10-Gigabit Fully Managed Switch with four 10 Gb SFP+ ports and 24 Gb ports

Premium. Reliable. Affordable.

Datasheet



Product Overview

The DrayTek VigorSwitch G2280x is a 10-Gigabit, high-performance, fully managed Gigabit Ethernet switch with four 10Gb SFP+ ports and 24 Gb ports that can be managed locally or centrally.

Key Features & Benefits

High Speed 10 Gigabit SFP+ Uplinks

Four SFP+ ports allows your network to utilise 10Gbps ports to link Switches, Servers and Networked Storage with more bandwidth. This helps you reduce the risk of bottlenecks occurring in your network.

Benefits: Easily increase network throughput and meet demanding bandwidth requirements.

Manage Centrally or Stand-Alone

Configure and monitor the switch through the VigorACS cloud management platform, DrayTek's Central Switch Management for Vigor routers, or directly via the devices Web Interface.

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

Advanced Layer 2+ Routing Features

Expand your network with support for Layer 3 features such as Static Routes and VLAN Routing, to connect separate networks through the VigorSwitch.

Benefits: Provides a fast and secure bridge between networks.

Great Security Features

Protect your network against unauthorised access and network problems with 802.1X port authentication, DHCP Snooping, IP Source Guard and Access Control Lists.

Benefits: Secure & control access to your network.

Voice VLAN & Surveillance VLAN

Automatically assign VLANs and QoS configuration to devices with matching MAC address OUI upon connection to the switch.

Benefits: Reduce broadcast traffic and allow more control when implementing security policies.

Hardware Monitoring

Monitor and graph switch temperature and power supply status remotely, with alerts for temperature & power supply issues.

Benefits: Email notification alerts for power loss, downtime or configuration changes.

ONVIF IP Camera Management

Manage ONVIF capable IP Cameras & NVR through the VigorSwitch. Automatically detect IP Camera topology on the network and view the video feed of connected cameras.

Benefits: Simplify management of connected IP Cameras and receive automated alerts for throughput issues.

IP Conflict Prevention

Use DrayTek's IP Conflict Prevention wizard to lock in the network setup, protecting against ARP spoofing and unknown DHCP servers.

Benefits: Improves network security. Quickly and easily determine the cause of network issues if they occur.

Key Specification

- 24 x RJ-45 Gigabit Ethernet Ports
- 4 x SFP+ 10GbE Ports for Uplink / Fibre
- 802.1q VLANs (Tag, Port & MAC-based)
- VLAN Routing & Static Route with DHCP server / relay
- Virtual Router Redundancy Protocol
- QoS for Application traffic prioritisation
- 802.1x RADIUS / TACACS+ Port Authentication with Accounting
- Voice VLAN for QoS (OUI Mode)
- Access Control List (ACL)

- Port Mirroring & Link Aggregation
- IGMP Snooping/Querier (Up to 256 Multicast Groups)
- IPv4 and IPv6 Support
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- IGMP Snooping/Querier (Up to 256 Multicast Groups)
- IPv4 and IPv6 Support
- Hardware Monitoring
- Centrally managed or standalone operation
- Console Port

Full Specifications

Physical Interfaces:

- 24 RJ-45 Ethernet Ports 10/100/1000Mbps
- 4 SFP+ Ports 1000Mbps/10Gbps Console Port (RJ-45 physical, RS-232 electrical)

- 802.1q Tag-based VLAN Port-based and MAC-based VLANs
- QinQ (Basic)
- GVRP General VLAN Registration Protocol Up to 255 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)
 - 802.1p CoS DSCP

 - CoS-DSCP
- IP Precedence ToS
- Rate Limit
- Class of Service

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:

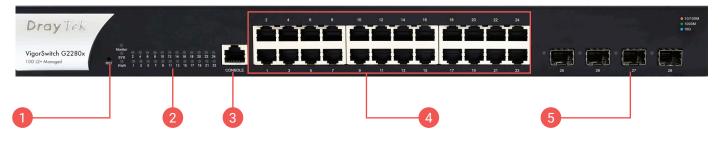
- Spanning Tree Protocol
- Rapid Spanning Tree Protocol
- Multiple Spanning Tree Protocol

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: 128Gbps Forwarding Rate: 95.24Mpps
- MAC Addresses Supported: 16,000
- Jumbo Frames up to 12KB Packet Buffer size: 12Mbit
- Layer 3 Routing Table: Up to 1000 Entries





- Reset Button
- Activity LED Indicators
- Console Port

- 24x Gigabit Ethernet
- 4x 10Gb or Gigabit SFP+
- Power Input

Full Specifications

Multicast:

- Up to 256 multicast groups
 Multicast Group Filtering / Throttling
 IGMP Snooping V2/V3 (BISS)
 IGMP V2/V3 Querier
 IS Occasion 14/2/V2

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

- RADIUS / TACACS+ Authentication for Management Multiple AAA Server
- MAC / Inaccessible Authentication bypass RADIUS Authentication 802.1X
- Multiple AAA Server
- Accounting Guest VLAN

- Web-based
- Attribute Assignment
 - User Privilege
- VLAN
- TACACS+ Authentication
 Port Authorisation
 - Accounting'

- Virtual Stacking Single IP Management *
 OpenVPN Client
 ONVIF IP Camera Management
 Running/Startup/Backup Configuration

- sFlow
- 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

- System Reboot
 Dual Firmware Image (Active & Backup Firmware)
 Command Line Interface (CLI) via SSH/Telnet
 Console Port (RJ45) for CLI management
 DrayTek Switch Management support via router (requires router
 firmware support)
 VigorACS Compatible (TR-069)
 SNMP v1, v2c, v3 (with Generic Traps)
 RMON Groups 1, 2, 3, 9 (History, Statistics, Alarms, Events)
 SNTP (Simple Network Time Protocol)

Diagnostics:

- Port Status & Usage display CPU/RAM Usage display Event Log via Syslog or email
- Port Mirroring
- Ping Diagnostics Port-based Cable Test

Hardware Monitor:

- Remote Monitoring through Web Interface & VigorACS * Hardware Monitor Data Recording & Graphing Email & LED alert on voltage high/low and overheat

- Temperature Monitoring Voltage Monitoring Power Saving Mode

Layer 3 Networking Features:

- Static Route
- VLAN Routing Virtual Router Redundancy (VRRP) Protocol *

IPv4 Features:

- **DHCP Client**
- **DNS Client**
- DHCP Server *

 - Option 82, 66, 67 DHCP Relay DHCP Snooping DHCP IP Source Guard

- 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 802.3ae 10GBase-T
- 802.3x Flow Control Capability

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 802.3 Auto-negotiation
 802.3ad Port trunk with LACP
 802.3az Energy Efficient Ethernet
 802.1q VLAN
 802.1p Class of Service
 802.1d Spanning Tree

- 802.1w Rapid Spanning Tree 802.1s Multiple Spanning Tree
- 802.1x Port Based Network Access Control
- 802.1ab Link Layer Discovery Protocol (LLDP)
- 802.1ad 0in0

Operating Requirements:

- Power Input Requirements: 100-240VAC
- Power supply: Internal

- Maximum Input Power Consumption: 25 Watts Cooling: Passively cooled Operating Temperature: 0 °C to 45 °C Storage Temperature: -20 °C to 70 °C Operating Humidity: 10% to 90% RH (non-condensing)

- Physical Specifications:
 Dimensions: 441 x 270 x 45 mm (W x D x H)
- Rack mountable: 1U
- Weight: 4.32Kg (excluding SFP modules/cables) Brackets included for rack or wall mounting

ROHS & CE Compliant

Warranty: 2 Year Manufacturer's RTB

^{* -} Not available in initial release firmware but will be available in a later firmware update.