DrayTek

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VigorSwitch G2080

8 GIGABIT PORT L2 MANAGED SWITCH

The DrayTek VigorSwitch G2080 manageable Layer 2 switch offers 8 10/100/1000Base-T Gigabit Ethernet ports and 2 SFP combo ports, and which supports SNMP, Web UI and CLI management interface. Designed ideally for workgroups and WAN edge applications, it incorporates features such as QoS (Quality of Service), MAC Filtering Policy, Port Mirroring, VLAN and full Layer 2 Protocol. With these advanced features, the DrayTek VigorSwitch G2080 is an ideal solution for expanding your Gigabit network.

Designed Fanless Switch without noise for Home and SOHO Users

In general, home and SOHO users are always on limited, small space; therefore, fanless switch without noise will be necessary, important for those users.

2 Dual Media for Flexible Fiber Connection

The dual media ports (port 7, 8) are provided for flexible fiber connection. You can select to install optional transceiver modules in these slots for short, medium or long distance fiber backbone attachment. Use of the SFP will disable their corresponding built-in 10/100/1000Base-T connections.

QoS support layer 4 classification

The switch supports not only Layer 2 802.1p Priority Queue control, but also supports programmable higher layer classification and prioritization to enable enhanced Quality of Service (Qos) support for real time applications base on information taken from Layer 2 to Layer 4, such as VoIP.

Port Mirroring Helps Supervisor Monitoring Network

Port mirroring copies traffic from a specific port to a target port. This mechanism helps track network errors or abnormal packet transmission without interrupting the flow of data.

Q-in-Q VLAN for performance & security

The VLAN feature in the switch offers the benefits of both security and performance. VLAN is used to isolate traffic between different users and thus provides better security. Limiting the broadcast traffic to within the same VLAN broadcast domain enhances performance. VLAN supports enabling advanced techniques such as “802.1Q-in-1Q” to be deployed.

802.3ad Port Trunk for Bandwidth Aggregation

The Gigabit ports can be combined together to create a multi-link load-sharing trunk. Up to 4 Gigabit ports can be set up per trunk for bandwidth up to 8Gbps, all traffic is aggregated based on MAC addresses, thus balancing the traffic load. The switch supports up to 4 trunking groups. Port trunks are useful for switch-to-switch cascading, providing very high full-duplex speeds.

802.1x Access Control Improve Network Security

802.1x features enable user authentication for each network access attempt. Port security features allow you to limit the number of MAC addresses per port in order to control the number of stations for each port. Static MAC addresses can be defined for each port to ensure only registered machines are allowed to access. By enabling both of these features, you can establish an access mechanism based on user and machine identities, as well as control the number of access stations.

802.1D Compatible & 802.1w Rapid Spanning Tree

For mission critical environments with multiple switches supporting STP, you can configure the switches with a redundant backup bridge path, so transmission and reception of packets can be guaranteed in event of any fail-over switch on the network.

Broadcast/Multicast Storm Control

By avoiding broadcast / multicast flooding in the network, broadcast/multicast storm control is used to restrict excess traffic. Threshold values are available to control the rate limit for each port. Packets are discarded if the count exceeds the configured upper threshold.

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Standard compliance

- IEEE 802.3x Flow Control capability
- IEEE 802.1q VLAN
- IEEE 802.1p QoS

Performance

- Switching capacity:
  - 8 Gigabit Ethernet ports with non-blocking wise speed performance.
  - 8 K MAC addresses
  - 144KB on-chip frame buffer.
  - Supports Jumbo frame support, up to 8K
  - Broadcast/Multicast Storm Suppression
  - Port Mirroring
- VLAN
  - Port-base VLAN
  - IEEE802.1q tag-base VLAN, up to 256 active VLANs
  - Q-in-Q is an efficient method for enabling Subscriber Aggregation.
- VSM(Virtual Stacking Management)
  - Up to 16 switches can be managed via single IP.
  - Virtual stacking, no extra stacking hardware and physical central wiring closet are needed.
- Qos
  - Supports Layer 4 TCP/UDP Port and ToS Classification
  - Supports 802.1p QoS with two level priority queue
  - Supports priority in a Q-in-Q tag
- Bandwidth Control
  - Supports bandwidth rating per port ingress and egress rate limit 1000Mbps with 1Mbps

Protocol

- LACP
  - Port trunking with 4 trunking group
  - Up to 8 ports for each group.
- GVRP/GARP
  - 802.1q with GVRP/ GARP
- Multicasting
  - Supports IGMP snooping including active and passive mode
- STP/RSTP
  - 802.1d/1w/1s

Network Security

- 802.1x access control
- Management Access Policy Control (ACL)

SNMPv1,v2c Network Management

- RFC 1213 MIB (MIB-II)
  - Interface MIB
  - Address Translation MIB
  - IP MIB
  - ICMP MIB
  - TCP MIB
  - UDP MIB
  - SNMP MIB
- RFC 1757 RMON MIB
  - Statistics Group 1
  - History Group 2
  - Alarm Group 3
  - Event Group 9
- RFC 1493 Bridge MIB
- RFC 1643 Ethernet MIB
- Enterprise MIB

Network Interface

- 8 x RJ-45 10/100Mbps ports
- 2 x SFP Fiber Module
- 1 x Console Port
- 1 x Reset Button

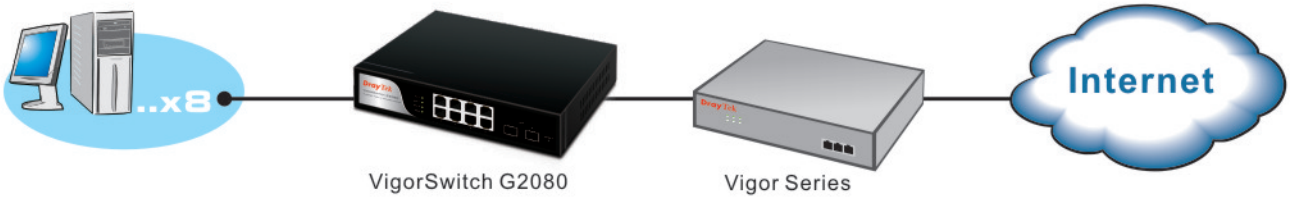
Cable and Maximum Length for SFP

- 1000Base-SX SC M-M
  - Up to 220/275/500/550m, which depends on Multi-Mode Fiber type
- 1000Base-LX SC S-M
  - Single-Mode Fiber, up to 10/30/50Km
- 1000Base-LX WDM SC S-M
  - Single-Mode Single Fiber, Bidi 20Km

Hardware Spec.

- Voltage: 100-240V
- Consumption: 20W
- Ambient Temperature: 0°C to 40°C
- Dimensions: 132.7 x 217 x 44 mm
- Weight: 1kg
- Humidity: 5% to 90%

Application



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V1.0
991-2080000-00