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-based and CLI management interface. Designed ideally for workgroups and long range remote located network 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.

### VLAN Features

VigorSwith G2080 offers benefits for both security and performance with the VLAN function. VLAN can isolate traffic among different clients. In addition, it provides good security in network application. Within the same VLAN broadcast domain, the limited broadcast traffic can enhance performance of the switch. Moreover, advanced technique, 802.1Q-in-Q, is provided and deployed within VLAN feature.

### Layer 4 Classification

VigorSwitch G2080 supports higher layer classification/ prioritization to activate the enhanced QoS for real-time applications with the information coming from Layer 2 to Layer 4.

### Supervisor Monitoring Network Supported by Port Mirroring

The mechanism of port mirroring can track errors in network or detect abnormal packet transmission but not break down the data flow for it will duplicate data from specified port to another port.

### Flexible Fiber Connection via Dual Medial Ports

Port 7 and port 8 (dual medial ports ) are used for flexible fiber connection. For short, medium or long distance fiber backbone attachment, users can install optional transceiver modules in these two ports. The usage of SFP will disable corresponding built-in 10/100/1000Base-T connections.

### Noiseless VigorSwitch G2080

To fit the request of working on limited small space for SOHO users, the noiseless VigorSwitch G2080 is important to and suitable for them.

### Port Trunk for Balancing Traffic Load

Port trunk is useful for switch-to-switch cascading which can offer high full-duplex speed. To create multi-link load-sharing trunk in network, the Gigabit ports can be grouped together to reach the purpose. Users can combine up to 4 Gigabit ports for the bandwidth up to 8 Gbps. Moreover, VigorSwitch can support up to 4 trunking groups.

### 802.1x Access Control Improve Network Security

802.1x features provide authentication for each network access for users. Besides, to control the number of stations for each port, the port security feature allows users to limit the number of MAC address per port. Users can define static MAC address for each port to ensure the access of registered machines. With these two features, users can establish an access mechanism with identifying user and machine, and control the number of access stations easily.

### 802.1d Compatible & 802.1w Rapid Spanning Tree

Users can configure VigorSwitch with a redundant backup bridge path for the mission critical environment with multiple switches supporting STP. Hence, the transmission and reception of packets can be assured in the event of any failover switch on the network.

### Broadcast/Multicast Storm Control

Broadcast/multicast storm control is adapted by VigorSwitch to restrict the excess traffic by avoiding broadcast/multicast flooding in the network. Threshold values are available for each port to control the rate limit. Additionally, if the count exceeds the configured upper threshold, the transmitted packets would be discarded.

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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, 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 groups
  - Up to 8 ports for each group
- GVRP/GARP
  - 802.1q with GVRP/ GARP
- Multicasting
  - Supports IGMP snooping including active and passive modes
- STP/RSTP
  - 802.1d/1w/1s

### Network Security

- 802.1x Access Control
- Management Access Policy Control

### 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

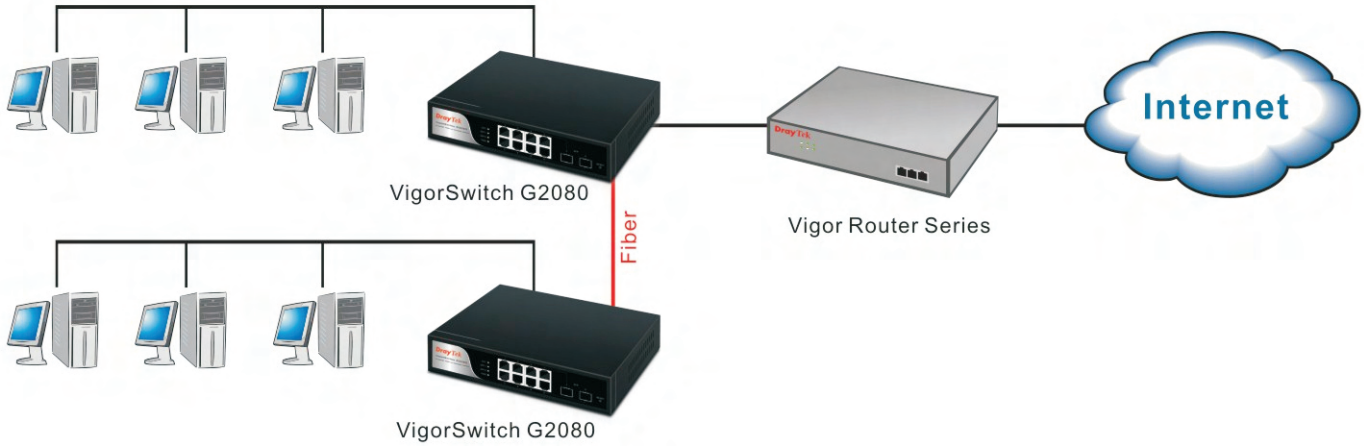
### Specifications

- 8 x RJ-45 10/100/1000Mbps Ports
- 2 x Dual Media Ports
- 1 x Console Port
- 1 x Restart Button
- Voltage: 100-240V
- Consumption: 20W
- Dimensions: 132.7 x 217 x 44 mm
- Weight: 1kg

### 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

* SFP module sold separately




www.draytek.com E-mail:info@draytek.com Tel:+886 3 597 2727 Fax:+886 3 597 2121

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