BLACK BOX®
NETWORK SERVICES

Smart Switch, 2 SFP

Key Features

▶ Designed Fanless Switch without noise for Home and SOHO Users

▶ QoS support layer 4 classification

▶ Port Mirroring

▶ VLAN for performance & security

▶ Port Trunk for Bandwidth Aggregation

▶ Trap Event for Exception Management

▶ 2 Dual Media for Flexible Fiber Connection

▶ Build-in web-base management

The LGB2000A Switch is a cost-effective web smart switch that meets all IEEE 802.3/u/x/z Gigabit, Fast Ethernet specifications. It is equipped with 6 10/100/1000Base-T ports and 2 dual media ports that accommodate optional 10/100/1000Base-T or SFP modules. The switch can be managed through Ethernet port using Web browser, the network administrator can logon the switch to monitor, configure and control each port's activity. In addition, the switch implements the QoS (Quality of Service), Port Mirror, VLAN, Port Trunk. It is suitable for office application.

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

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 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.

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 also enhances performance.

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. The switch supports up to 4 trunking groups. Port trunks are useful for switch-to-switch cascading, providing very high full-duplex speeds.

We use SNMP Trap mechanism to inform supervisor to know the instant abnormal status of the switch.

7, 8 dual media port 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.

Instead of using CLI interface, we provide a more convenient GUI for user. We just need to configure switch via Web Browser. It is more quickly for user to familiar the method to control switch on the basis of this design.

Specifications

Standard compliance
· IEEE 802.3 10Base-T Ethernet(twisted-pair copper)
· IEEE 802.3u 100Base-T Ethernet(twisted-pair copper)
· IEEE 802.3ab 1000Base-T Ethernet(twisted-pair copper)
· IEEE 802.3z 1000Base-X Ethernet
· IEEE 802.3x flow control capability
· ANSI/IEEE 802.3 auto-negotiation
· IEEE 802.1q VLAN

Subscriber Interface
· 8 Gigabit Ethernet ports
· Auto-negotiation
· Auto-MDIX
· Backpressure flow control for half duplex
· 802.3x flow control for full duplex
· Port 7, 8 are TP/SFP Fiber auto sense
· Connector: 16 RJ-45 and 2 SFP module

Performance
Switching capacity:
· 8 Gigabit Ethernet ports with non-blocking wire-speed performance
· Wire speed performance

· 8 K MAC addresses
· 144 KB on-chip frame buffer
· Jumbo frame support

VLAN
· Port-base VLAN
· IEEE802.1q tag-base VLAN, 4094 max

Qos
· Supports Layer 4 TCP/UDP port and ToS classification
· Supports 802.1p QoS with two level priority queue

Bandwidth Control
· Supports bandwidth rating per port ingress and egress rate limit 1000Mbps with 1Mbps

Port Trunk
· Port trunking with 4 trunking group
· up to 4 ports for each group

Broadcast Storm
· Broadcast storm suppression

Port Mirroring
. All ports support port mirroring

Voltage : 100~240 V

Frequency: 50~60 Hz

Consumption: 20W

Ambient Temperature:0°C to 50°C

Dimensions: 132 x 217 x 44 mm

Humidity: 5% to 90%

Safety: Comply with FCC Part 15 Class A & CE Mark Approval

Global/POWER/Green:
Lit when +5V power is coming up

Global/CPU ACT/Green:
Blinks when CPU is activity

Port 1-8/LINK/ACT/ Green:
Lit when connection with remote device is good. Blinks when any traffic is present

Port 1-8/1000/100Mbps/ Green/Amber:
Lit Green when TP link on 1000Mbps speed. Lit Amber when TP link on 100Mbps speed. Off when 10Mbps or no link occur

Port 7,8/SFP/Green:
Lit when SFP connection with remote device is good
Blinks when any traffic is present

Ordering information

ITEM	CODE
Smart Switch, 2 SFP 8-Port	LGB2000A
Smart Switch, 2 SFP 16-Port	LGB2002A
Smart Switch, 2 SFP 24-Port	LGB2003A

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