

BDCOM S6800 Series Switch

— Large Network Backbone Switch

Proudly presented by Shanghai Baud Data Communication Co., Ltd. (BDCOM), BDCOM S6803/S6806/S6810 is a hi-performance and chassis-hardware L2/L3/L4 switch, aiming at large-sized networks aggregation and SMB's core network. BDCOM S6800 series has an all-modular, high-density-port design and 2.4T switch fabric so that user's requirements can be satisfied by flexible configurations and expansible networks. The powerful switching and routing function, makes BDCOM S6803/6806/6810 an ideal choice for the core switch for large-sized networks, and with other BDCOM switches, supply the perfect peer-to-peer solutions for user.



S6803

S6806

S6810

Application

- Gigabit core of small- and medium-sized networks
- Aggregation level of large-sized networks
- High performance-network switching environment

Features

High-density-port Business Module

- Supply powerful high-density-port switching ability.
- Support 384-port 1000-M and 32-port 10000-M.

High switching fabric and Wire-speed Processing

- 2.4T Gbps switch fabric, supply congestion-less switching for all ports
- Powerful processing ability guarantees the reliable, stable and hi-speed IP network platform
- Hardware supports multi-layer wire-speed switching, and is capable to identify and process application flow above L4. All ports have data package filtration function, and

can differentiate, manage and control the application flow.

- Hardware chip supports IPv6 and benefits smoothly network upgrade in future

Tight Security

- Support standard ACL, extended ACL and ACL based on time, making control policy flexible
- DAP(DOS defense) makes network more safe and avoids attacking form virtues, like ICMP, SYN, UDP, etc.
- Support 802.1x based on user, and supply more effective port-control ability. The function of MAC address restriction can limit the number of access host.

Powerful QoS Support

- Support 802.1p, WRR, RED, DiffServ and priority-based scheduling algorithms serve users with discrimination according to their priority level. L2/L3/L4 flow classification. Powerful QoS is the base of NGN.

High Reliability

- Redundant backup, support STP/RSTP/VRRP. Double redundant power modules work in hot standby mode to ensure business will be not interrupted.

Specifications

	S6803	S6806	S6810
Slot	1*MSU + 2*Access Modules	2*MSU + 4* Access Modules	2*MSU + 8* Access Modules
Backplane Capacity	768G	1.8T	2.4T
Switch Fabric	SuperEngige I 96Gbps	SuperEngige I 96Gbps	SuperEngige II 192Gbps
	SuperEngige II 192Gbps	SuperEngige II 192Gbps	SuperEngige III 384Gbps
	SuperEngige III 384Gbps	SuperEngige III 384Gbps	SuperEngige IV 768Gbps
Forwarding Rate	119Mpps	238 Mpps	476 Mpps
Max No. of 10000M ports	8	16	32
Max No. of 1000M ports	96	192	384
Max No. of 100M ports	96	192	384
CPU	RISC CPU (RISC 800MHz)		
Flash	16MB		
SDRAM	128MB(up to 1GB)		
MAC Address Table Size	512K	512K	512K
VLAN table Size	4K	4K	4K
IP Routing Table Size	512K	512K	512K

Spanning Tree	802.1D (STP)、802.1w (RSTP)、802.1s(MSTP)		
Routing Protocol	RIPv1/2、OSPF、BGP		
MPLS	MPLS、MPLS VPN、MPLS TE		
IPv6	Support		
Multicast Protocol	IGMP、DVMRP、PIM-SM、PIM-DM		
QoS	8 dispatching queues per port, support 802.1p, ToS, application port control, DiffServ, WRR, SP, SWRR, etc.		
ACL	Standard and Extended ACL, support based IP, source/destination IP, L3 IP protocol no., TCP/UDP port, IP priority, ToS, time ranger ACL		
MAC Control	Support port/MAC binding, MAC ACL		
VLAN	Port-based VLAN, 802.1Q, support GVRP, PVLAN, Super VLAN Stacking(QinQ)		
Flow Control	HOL blocking prevention, Half-duplex: Back Pressure, Full-duplex: IEEE 802.3x		
ARP	Support		
DHCP	Support Client、Relay、Server		
Port Aggregation	Support 802.3ad, loading balance		
Customer Access	Support 802.1x		
AAA	Support RADIUS		
Port Mirroring	Support		
Broadcast Control	Support		
Security	Support MSU redundancy, hot swapped, HSRP, VRRP		
IEEE Standard	IEEE 802.1D IEEE 802.3 IEEE 802.3u IEEE802.3ad IEEE 802.3x IEEE 802.3z IEEE802.1Q IEEE 802.1P IEEE 802.1w IEEE 802.1x		
Console Interface	CLI、WEB		
Console Port	RS-232		
Telnet	Support		
SNMP	v1、v2、v3		
SysLog	Support		
RMON	1, 2, 3, 9		
MIB	Support		
Humidity	10%~90% (no condensing)		
Temperature	0°C~40°C		
Power Supply	AC: 200-240VAC, 50/60 Hz DC: -48V		
Power Redundancy	1+1 redundancy, support hot swapped		
Dimensions(mm) (L×W×H)	436×450×380mm	436×450×680mm	436×450×797mm
Power Consumption	700W	1000W	1000W

Support Protocols

Standard Protocols	802.3,10BaseT, 802.3u 100BaseTX, 100BaseFX, 802.3z 1000BaseSX, 802.3z 1000BaseLX, 802.3ab 1000BaseT, 802.3ae 10 Gigabit Ethernet, 802.3x Flow Control, 802.3ad Link Aggregation, 802.1p/q VLAN Tagging, 802.1d Bridging, 802.1w Rapid STP, 802.1x User authentication, 802.3 Ethernet Like MIB, Ethernet Interface MIB, SNMP v1, v2c and V3 , SNMP MIB II
OSPF	RFC 2178 OSPF, RFC 1583 OSPF v2, RFC 1587 OSPF NSSA, RFC 1745 OSPF Interactions, RFC 1765 OSPF Database Overflow,RFC 1680 OSPF Traps,RFC 2154 OSPF w/Digital Signatures (Password, MD-5),RFC2328 OSPF v2,RFC 1680 OSPF v2 MIB,RFC 1997 Communities Attributes,RFC 2368 TCP MD5,RFC 2370 OSPF Opaque LSA Option
RIP	RFC 1058 RIP v1, RFC 1723 RIP v2, RFC 1812 RIP Requirements
IP Multicast	RFC 1122 DVMRP Host Requirements, RFC 1256 ICMP Router Discovery Protocol,RFC 1112 IGMP,RFC 2236 IGMP v2,RFC 2362 PIM-SM,DVMRP v3-07,RFC 2336 IGMP v2
Routing Protocols	RFC 791 IP,RFC 792 ICMP,RFC 793 TCP,RFC 783 TFTP,RFC 826 ARP,RFC 768 UDP,RFC 894 IP over Ethernet,RFC 903 RARP,RFC 1027 Proxy ARP,RFC 684 TELNET,RFC 1591 DNS (client),RFC 1812 General Routing,RFC 1541 and 1542 DHCP,RFC 2131 BootP/DHCP Helper,RFC 2338 VRRP
Other Protocols	RFC1354 IP Forwarding MIB,RFC 1757 RMON Groups 1,2,3,9,RFC 2068 HTTP,RFC 2030 SNTTP,RFC 2138 RADIUS

Order Information

BDCOM S6810	
LS6810-Chassis	BDCOM S6810 Modular Switch chassis (10 slots, including 2 MSU slots and 8 network module slots, dual AC/DC power supply)
LS68-PWR-AC-1000	220V AC power supply for S6810
LS68-PWR-DC	-48V DC power supply
BDCOM S6806	
LS6806-Chassis	BDCOM S6806 Modular Switch chassis (6 slots, including 2 MSU slots and 4 network module slots, dual AC/DC power supply)
LS68-PWR-AC-600	220V AC power supply for S6806
LS68-PWR-DC	-48V DC power supply
BDCOM S6803	

LS6803-Chassis	BDCOM S6803 Modular Switch chassis (3 slots, including 1 MSU slot and 2 network module slots, dual AC/DC power supply)
LS68-PWR-AC-600	220V AC power supply for S6803
LS68-PWR-DC	-48V DC power supply
S6800 modules	
MSU	
LS68-MSU-I	Main Switching Unit —SuperEngine I
LS68-MSU-II	Main Switching Unit —SuperEngine II
LS68-MSU-III	Main Switching Unit —SuperEngine III
LS68-MSU-IV	Main Switching Unit —SuperEngine IV
Business modules	
LS68-48FE-TX	48-port 10/100M RJ-45 Module
LS68-24FESFP-4GE	24-port 100M FX SFP + 4-port 1000M SFP/TX Module
LS68-32FE-4GE	32-port 10/100M RJ-45 + 4-port 1000M SFP/TX Module
LS68-12GE-Combo	12-port 1000M SFP/TX Module
LS68-24GE-SFP	24-port 1000M FX SFP Module
LS68-24GE-TX	24-port 10/100/1000M RJ-45 Module
LS68-48GE-TX	48-port 10/100/1000M RJ-45 Module
LS68-1TE-XFP	1-port 10 Gigabit XFP Module
LS68-2TE-XFP	2-port 10 Gigabit XFP Module
LS68-4TE-XFP	4-port 10 Gigabit XFP Module
Optical modules	
GSFP-TX	1000M SFP module, 1000BaseT, RJ45
GSFP-SX	1000M SFP module, Multi-mode, 680nm, 500m, LC interface
GSFP-LX-10	1000M SFP module, Single-mode, 1310nm, 10km, LC interface
GSFP-LX-40	1000M SFP module, Single-mode, 1310nm, 40km, LC interface
GSFP-ZX-80	1000M SFP module, Single-mode, 1550nm, 80km, LC interface
XFP-SX	10 Gigabit XFP Multi-mode, 850nm,300m, LC interface
XFP-LX-10	10 Gigabit XFP Single-mode, 1310nm,10km, LC interface
XFP-LX-40	10 Gigabit XFP Single-mode, 1550nm,40km, LC interface

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