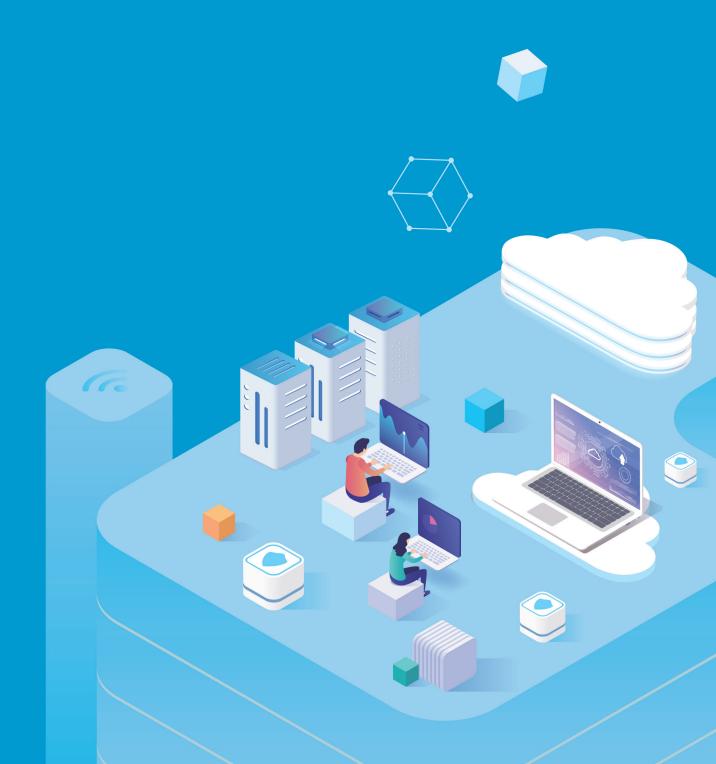


TiFRONT Backbone Switch



TiFRONT Backbone Switch

PIOLINK BS9800 series is a cost-effective next generation of high-availability backbone switches.

Terabit switching capacity reliably handles the surging core network traffic in data centers, universities and businesses and ensures business continuity with high fault resilience.



Rich L3 routing and virtualization(VSU) capabilities



Up to 12.8 Tbps switch capacity and 9,048 Mpps packet processing



Protect your system from various packet attacks (NFPP and security features)



CPP capability to block overload and malfunction



Integrated management on TiController management system



Standard rack mountable (10 U in height, 600 mm in depth)

Virtual Switch Unit (VSU)

TIFRONT BS9800 series is specifically designed for the next generation of integrated networks.

VSU(Virtual Switch Unit) virtualization technology delivered supports future ethernet requirements and greatly simplifies the network architecture to improve operational efficiency.







BS9805 BS9808 BS9810

TiFRONT backbone switch features

Improve operational efficiency

Virtual Switch Unit(VSU) technology simplifies two devices into one logical device to reduce administrative load and link recovery feature ensures uninterrupted transmission



Non-blocking switching

Independent switching fabric and control module configuration for greater reliability and greater traffic transmission efficiency



Carrier-grade high availability

Key components such as control engine, power supply, fans, etc.
Module redundancy and hot-swap support



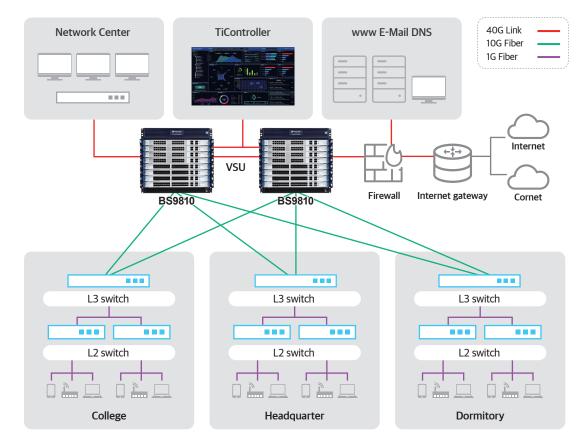
Superior energy efficiency

Low voltage power supplies and multicore CPUs reduce power and ensure durability in high temperatures with smart fans that control temperature and speed



TiFRONT backbone switch scenario

Campus network deployment example



Specification







TiFRONT	BS9805	BS9808	BS9810
Height	4 U	10 U	10 U
Slot for Control Engine	2	2	2
Slot for Fabric Engine	-	-	2
Slot for Line Card	3	6	8
Max. 1GbE ports	144	288	384
Max. 10GbE ports	144	288	384
Max. 40GbE QSFP+	24	48	64
Max. 100GbE QSFP28	24	48	64
No. of Power Supply	2	4	4
No. of Fan Moudles	1	2	2
Power Input	AC 100~240 V, 50/60 Hz		
Power Consumption (Main Chassis)	88 W	176 W	432 W
Switch Fabric	3.7 Tbps	9.6 Tbps	12.8 Tbps
Forwarding Rate	3321 Mpps	7142 Mpps	9047 Mpps

Control Engine	
BS9805-CE-MT	BS9805 Control engines (Max. 2, 1+1 Redundancy)
BS9808-CE-MT	BS9808 control engines (Max. 2, 1+1 Redundancy)
BS9810-CE-AT	BS9810 Control Engine (Max. 2, 1+1 Redundancy)
BS9810-CE-BT	BS9810 Control Engine (Max. 2, 1+1 Redundancy)

Switch Fabric Module	
BS9810-SF-AT	BS9810 First Generation Switch Fabric Module
BS9810-SF-BT	BS9810 Second Generation Switch Fabric Module

Line Card		IPv4 Routing Table	IPv6 Routing Table
BS9800-24F12C4XS-AT	24 x 1GbE (SFP), 12 x 1GbE copper combo (RJ45), 4 x 10GbE (SFP+)		
BS9800-24C24F4XS-AT	24 x 1GbE copper (RJ45), 24 x 1GbE (SFP), 4 x 10GbE (SFP+)		
BS9800-48C4XS-AT	48 x 1GbE copper (RJ45), 4 x 10GbE (SFP+)	16 K	8 K
BS9800-48F4XS-AT	48 x 1GbE (SFP), 4 x 10GbE (SFP+)		
BS9800-32XS4QXS-AT	32 x 10GbE (SFP+), 4 x 40GbE (QSFP+), 40GbE supports 1 to 4 x 10GbE (SFP+)		
BS9800-48XS-BT	48 x 10GbE (SFP+)		
BS9800-8CQ-BT	8 x 100GbE (QSFP28), Support to be downward compatible with 40GbE (QSFP+)	64 K	24 K
BS9800-48C-BT	48 x 1GbE copper (RJ45)	134 K	50 K
BS9800-48F-BT	48 x 1GbE (SFP)	134 K	50 K

Power Supply	
BS9805-PWR-AC460	BS9805 Power Module (support redundancy, AC, 460W)
BS9808-PWR-AC1600	BS9808 Power Module (support redundancy, AC, 1600W)
BS9810-PWR-AC1600	BS9810 Power Module (support redundancy, AC, 1600W)

Common features

L2 Features	Jumbo Frame
	• 802.1Q
	• STP, RSTP, MSTP
	Super VLAN
	• GVRP
	• QinQ, Flexible QinQ
	• LLDP
	• ERPS (G.8032)
	• Static Routing, RIP, OSPF, IS-IS, BGP4
	• VRRP
IPv4 Features	• Equal-Cost Multipath (ECMP) Routing
	Policy Routing
	GRE Tunnel
	Static Routing, OSPFv3, BGP4+, IS-ISv6, MLDv1/v2
	• VRRPv3
IPv6 Features	• Equal-Cost Multipath (ECMP) Routing
	Policy Routing
	• Manual Tunnel, Auto Tunnel, ISATAP Tunnel, GRE Tunnel
	• IGMP v1, v2, v3
	IGMP Snooping
Ad Internal	• IGMP Proxy
Multicast	• PIM-DM, PIM-SM, PIM-SSM
	• MLD
	Multicast Static Routing
VOVLANI	VXLAN L2 Bridge
VXLAN	VXLAN L3 Bridge
	Standard, Extended, Expert ACL
ACL	• ACL 80
	• IPv6 ACL
Port Mirroring	Many-to-one/One-to-many, Flow-Based mirroring
	• SPAN, RSPAN, VLAN mirroring
QoS	• 802.1P
	 Queue Scheduling Mechanisms (SP, WRR, DRR, SP+WRR, and SP+DRR)
	• RED/WRED,Traffic supervision and traffic shaping
	• Input/Output Port-Based Speed Limit

Security features	• NFPP (Network Foundation Protection Policy)
	• CPP (CPU protection)
	• DAI, port security, IP Source Guard
	• 802.1x
	Portal authentication, RADIUS and TACACS+ user login authentication
	• uRPF
	• Login authentication and password security policy
	Unknown multicast are not delivered to CPU and Support unknown unicast suppression
	Support SSHv2 to provide a secure and encrypted channel for user login
	Control engine : 1+1 redundancy
	Power supply : N+M redundancy
	• FAN : 1+1 redundancy
	Hot-swappable components
Reliability	Hot-path and online patch upgrade
	• ISSU
	GR for OSPF / IS-IS / BGP
	• BFD for VRRP / OSPF / BGP4 / ISIS / ISISv6 / static routing
	Isolating failed fiber ports
	Console / AUX modem / Telnet / SSH2.0 command line config
	• FTP, TFTP, Xmodemfile upload/download management
Management	• SNMP v1/v2c/v3
and Maintenance	• Remote Network Monitoring(RMON)
	• NTP clock
	Fault alarm and self-recovery
	System Log
	• sFLOW
EEE Format	• EEE (802.3az)

PIOLINK is a professional network and security company.

Ensure industry-leading application availability and performance, deploy cloud infrastructure, easy network management, and It has unique skills and leadership in an intelligent and advanced IT environment with information protection. Major products include Application delivery controllers which dominate the domestic market, web application firewalls, Cloud-managed networking and hyper-converged infrastructure. Major services include security control and security consulting.



PIOLINK, INC. Tel +82.2.2025.6900 www.PIOLINK.com

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