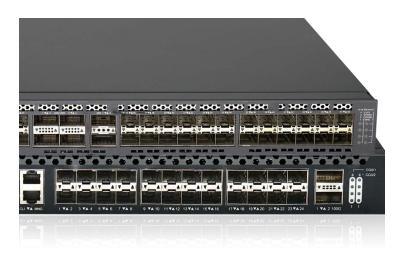


Multiservice

48 x 10GE SFP+ Switch

AS5800 Series

- Maximizes physical link utilization
- Advanced hardware with packet scheduling
- Supports IEEE 802.1x,Radius, BDTacacs+
- Enhanced ring detection and protection
- SNMP and Pallas cloud platform



ASCENT AS5800 Series is a full 10GE Top-of-Rack switches designed for high-performance computing, modern data centers, and advanced campus networks. Built with advanced hardware architecture and the BDROS software platform, the AS5800 Series delivers exceptional scalability, rich routing capabilities, and industry-leading reliability.

The 1U AS5800 platform supports up to 2.56 Tbps switching capacity with options for 48 × 10GE ports + 2 × 40GE ports + 4 × 100GE uplinks or a 72 × 10GE configuration, meeting diverse deployment needs from server access to aggregation. With high-performance L2/L3/L4 wire-speed forwarding, the switch integrates IPv6, VPN, security, traffic analysis, and virtualization services, enhanced by mechanisms such as continuous forwarding, graceful restart, and comprehensive loop protection—ensuring stable, non-interruptive operation of the switching fabric.

AS5800 Series incorporates the GreenTouch and Smart@CHIP energy-optimized architectures, achieving power consumption below 200W while maintaining toptier performance. The series includes models AS5800-24X2C and AS5864HB, offering flexible deployment options for demanding data-center, carrier-grade, and enterprise-scale networks requiring high throughput and long-term operational stability.



Key Features —

- Makes full use of each link in the physical device cluster
- Based on the advanced distribution mechanism and efficient cross-physical link aggregation function
- Realizes single IP management, greatly improving the networking efficiency and lowering operating costs
- Supports BVSS, which can virtualize multiple physical devices into a single logical element
- The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection
- Supports IEEE 802.1x, Radius and BDTacacs+
- Supports perfect ring detection mechanism
- Supports port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding
- Supports the IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6, path MTU discovery, DHCPv6, etc
- Data Center Level High-reliability

Model Lists -



AS5800-24X2C

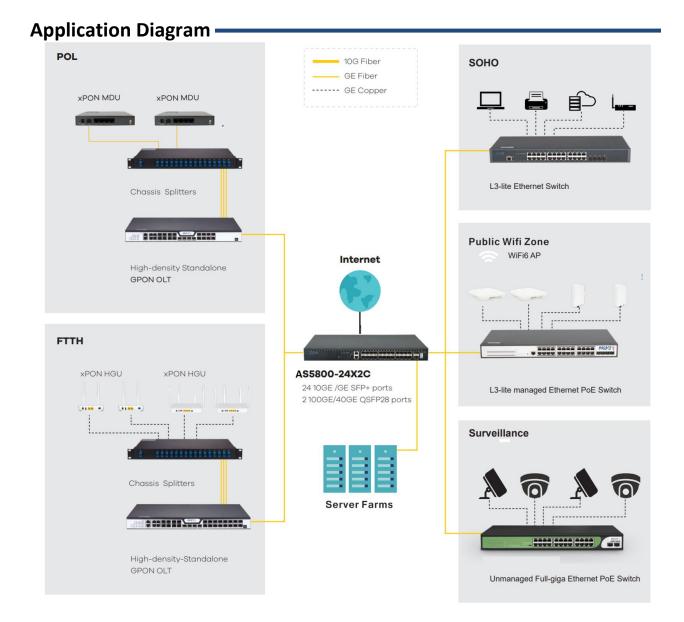
- · 24-Port 10G/GE SFP+
- · 2-Port 100G/40G QSFP28



AS5684HB

- · 48-Port 10G/GE SFP+
- · 2-Port 40G QSFP+
- · 4-Port 100G/40G QSFP28







Specifications -

roduct Character	ristics			
Item		Unit	Description	
			AS5800-24X2C	AS5864HB
Interface			24-Port 10G/GE SFP+	48-Port 10G/GE SFP+
			2-Port 100G/40G QSFP28	2-Port 40G QSFP+
				4-Port 100G/40G QSFP28
Console			1 RJ45 console, 1 MGMT	1 RJ45 console, 1 MGMT
Backplane		Gbps	880	1920
Forwarding Rate		Mpps	660	1440
Chassis	Dimensions(WxDxH)	mm	440x300x44	440x300x44
	Weight(Empty)	kg	6.1	8.8
Package	Dimensions(WxDxH)	mm	576x448x94	616x488x140
	Weight	kg	7.1	10
Power	No-Load	W	45	102
Consumption				
	Full-Load	W	70	147
Power Supply	AC: 100-240,	V	2	2
(Hot-Swap)	50Hz±10%			
Power Status Monitoring			Support	Support
Total Output BTU (1000BTU/H=293W)			238.91	501.71
Fan Number			4	4
Noise@25(dBA)		°C	57	57
MTBF(H)			>200,000	>200,000
Forwarding Mode			Store-forward	Store-forward
Flash		MB	4096	64
DRAM		MB	2048	1024
MAC		K	128	64
Jumbo Frame		K	9	16
Routing Table	IPv4	K	16	16
	lpv6	K	8	8
ARP Table	IPv4	K	16	16
	lpv6	K	8	2
Total SVI		K	1	1



Features

Item Description

VLAN 4K Active VLAN, QinQ & Selective QinQ, GVRP, Private VLAN, Voice-VLAN

Spanning Tree 802.1D (STP)

802.1W (RSTP) and 802.1S (MSTP)

BPDU guard, root guard and loopback guard

Multicast PIM-DM(S5864HB)

PIM-SM/SSM IGMP v1/v2/v3 IGMP Snooping IGMP Fast Leave MVR, IGMP filter

IPV4 Static routing, RIP v1/v2

OSPF, BGP, PBR, ECMP BFD for OSPF, BGP

Ipv6 ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet

IPv6 neighbor discovery, Path MTU discovery

MLD snooping

IPv6 Static Routing, RIPng, OSPFv3, BGP4+ Manual tunnel, ISATAP tunnel, 6 to 4 tunnel

QoS CAR, HQoS, MAC/IP/TCP/UDP/ VLAN/ COS/ DSCP/ TOS based QoS

802.1P/ DSCP priority re- labeling, SP, WRR, and "SP+WRR", Tail-Drop

WRED, flow monitoring and traffc shaping

Security Port isolation, Port security, and "IP+MAC+port" binding, MAC sticky

DHCP Snooping and option 82, DAI & I P source guard, PPPoE+

IEEE 802.1x, AAA, Radius and BDTacacs+ L2/L3/L4 ACL flow identification and filtration Anti-attack from

DDoS, TCP's SYN Flood, UDP Flood, etc

Broadcast/multicast/unknown unicast storm-control

MD5, SHA-256, RSA-1024, AES256, etc

DHCP berver/relay/client

DHCP snooping/option82

Reliability Static/LACP link aggregation

Interface backup BVSS virtual-stacking EAPS and ERPS URPF, LLDP ISSU VRRP

1+1 power backup

Management Console, Telnet, SSH v1/2, HTTP, HTTPS

SNMP v1/v2/v3, RMON

TFTP, FTP, SFTP NTP, SPAN, RSPAN

Syslog

Environment Operating Temperature/Humidity: 0 to 50°C,10%-90% non-condensing

Storage Temperature/Humidity: -20 to 70°C, 5%-95% non-condensing

Certification CE, FCC, ROHS

Accessories Power cord, rackmount kits, console cable



Ordering Information -

Product name Product description

AS5800-24X2C 24-Port 10G SFP+ 2-Port 100G QSFP28 L3 Managed Switch (2 power slots with dual

AC220V power supplies;1U, 19-inch rack-mounted installation

AS5864HB 48-Port 10G SFP+ 2-Port 40G QSFP+ 4-Port 40/100G QSFP28 L3 Stackable Managed

Switch (2 power slots with dual AC220V power supplies; 4 fan slots with 4 cooling fans;

standard front-back air channel design, 1U, 19-inch rack-mounted installation)

Contact Information



Ascent Communication Technology Ltd

AUSTRALIA

140 William Street, Melbourne Victoria 3000, AUSTRALIA Phone: +61-3-8691 2902

CHINA

Unit 1933, 600 Luban Road 200023, Shanghai, CHINA Phone: +86-21-60232616

EUROPE

Pfarrer-Bensheimer-Strasse 7a 55129 Mainz, GERMANY Phone: +49 (0) 6136 926 3246

WEB: www.ascentcomtec.com

Hong Kong SAR

Room 1210, 12th Floor, Wing Tuck Commercial Centre 181 Wing Lok Street, Sheung Wan , Hong Kong SAR Phone: +852-2851 4722

USA

2710 Thomes Ave Cheyenne, WY 82001, USA Phone: +1 203 350 9822

VIETNAM

11th Floor, Hoa Binh Office Tower 106 Hoang Quoc Viet Street, Nghia Do Ward Cau Giay District, Hanoi 10649, VIETNAM Phone: +84-24-37955917

1 Holic. 104 24 37333317

EMAIL: sales@ascentcomtec.com

Specifications and product availability are subject to change without notice. Copyright © 2025 Ascent Communication Technology Limited. All rights reserved. Ver. ACT_AS5800_10GE_Switch_Datasheet_V1b_Nov_2021