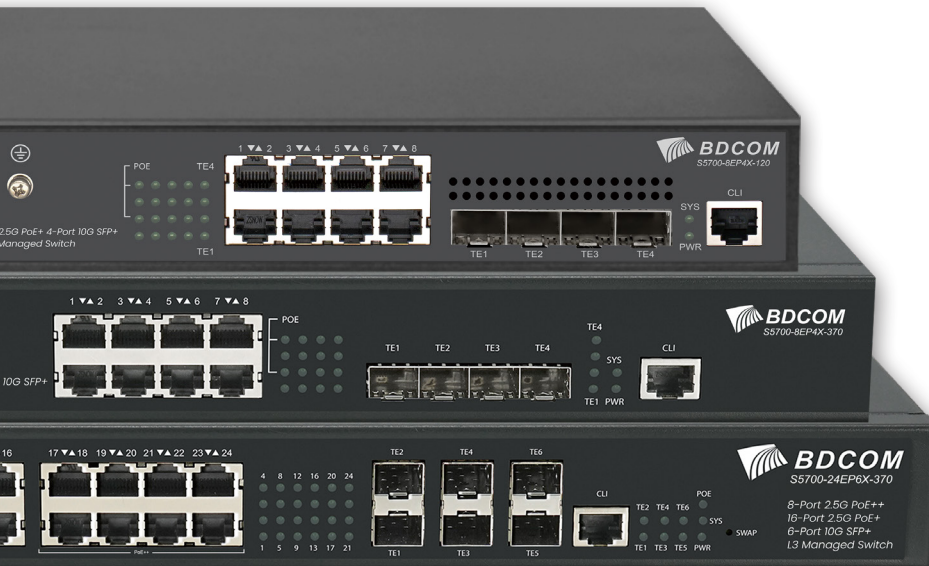


# S5700-P SERIES



Supports 24-Port  
2.5G PoE++ and 6-Port  
10G SFP+ Uplink



Ups to 16-unit  
Virtual Stack



Carrier-Level High  
Reliability  
Full Layer-3 Functions



Varied Service  
Characteristics  
Versatile IPv6 Solution  
Complete Security  
Mechanism

## Overview

BDCOM S5700-P Series is a BDCOM-developed multigigabit Ethernet PoE switch oriented for the next generation IP metropolitan area network, large campus network, and enterprise network.

BDCOM S5700-P Series series adopts the cutting edge hardware architecture and is equipped with the BDROS operating system with BDCOM's independent intellectual property rights.

On the basis of providing high-performance L2/L3/L4 wire-speed switching services, BDCOM S5700-P Series further integrates various network services such as IPv6 and network security.

Combined with multiple high-reliability technologies such as uninterrupted upgrade, uninterrupted forwarding, graceful restart, and redundancy protection, BDCOM S5700-P Series ensures the long-term stable communication capability of the network. BDCOM S5700-P Series is widely used in high-end WiFi6 deployment, cyber cafes, E-sports

hotels, and high-speed enterprise network.

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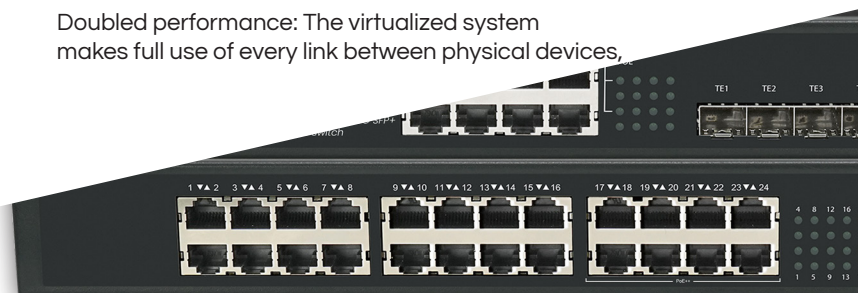
BDCOM S5700-P Series has 4 models: S5700-8EP4X-120, S5700-8EP4X-370, S5700-24EP6X-370 and S5700-24EP6X-760.

## Highlights

### Advanced hardware architecture, cutting edge processing capability

S5700-P Series 1U pizza-box switch realizes the ultra-high port density of 8-Port 2.5G PoE++, 16-Port 2.5G PoE+ and 6-Port 10G SFP+. Equipped with high-performance ASIC switch chips, S5700-P Series can meet the application requirements of various complex scenarios.

Doubled performance: The virtualized system makes full use of every link between physical devices,



# Highlights

avoiding the link congestion of the traditional networking model Spanning Tree Protocol, making the best use of devices, doubling the performance, and protecting the original link investment to the greatest extent.

**High reliability:** Based on advanced distributed processing technology, the efficient cross-physical device link aggregation function separates the logical control plane, service control plane and service data plane, providing uninterrupted Layer 3 routing and forwarding and avoiding business interruption caused by the single failure.

Therefore, the reliability of the virtual system is greatly improved.

**Easy management:** The entire virtual system realizes unified management of a single IP, and physical devices are visible to users, which simplifies the management of network devices and network topology, greatly improves operation efficiency, and effectively reduces operation and maintenance costs.

## Carrier-level high reliability

Based on Hitless Protection System (HPS), the key components of the S5700-P Series, such as power supply modules, are redundant backup and hot-swappable, which supports seamless switchover in case of failure without manual intervention.

S5700-P Series supports STP/RSTP/MSTP, VRRP, ring network protection, dual uplink active/standby link protection, LACP and other simple and efficient redundancy protection mechanisms.

S5700-P Series supports In-Service Software Upgrade (ISSU), ensuring the unremitting data forwarding during system upgrade.

The ultra-high-precision BFD mechanism, through linkage with Layer 2 and Layer 3 protocols, realizes millisecond-level fault detection and service recovery, which greatly improves the reliability of the network system.

Perfect Ethernet OAM mechanism, supporting 802.3ah and 802.1ag, realizes rapid detection and location of faults through real-time monitoring of network operation status.

The high reliability hardware and software of the S5700-P Series meet the fault recovery time requirement of 50ms for carrier-level services, and truly achieve the high reliability (99.999%) of carrier-class core devices.

## Innovative BVSS

The BDCOM S5700-P Series supports innovative BDCOM Virtual Switch System (BVSS), which can virtualize multiple physical devices into one logical device with unparalleled performance, reliability, and

management compared to stand-alone physical devices.

## Rich service features

Perfect Layer 2 and Layer 3 multicast routing protocols meet the access requirements of IPTV, multi-terminal high-definition video surveillance and video conferencing;

Complete Layer 3 routing protocols and large routing table capacity meet the needs of various network interconnection, and can built up ultra-large campus network, enterprise network and industry private network.

## Comprehensive IPv6 solutions

Supports the IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6, path MTU discovery, DHCPv6, etc.

Supports Ping, Traceroute, Telnet, SSH, ACL and so on, meeting IPv6 networks' device management and service control requirements.

Supports IPv6 multicast features such as MLD, MLD Snooping, IPv6 static routing, IPv6 Layer 3 routing protocols such as RIPng, OSPFv3, BGP4+, providing complete IPv6 Layer 2 and Layer 3 solutions.

Supports a wealth of IPv4 to IPv6 transition technologies, including: IPv6 manual tunnel, automatic tunnel, 6to4 tunnel, and ISATAP tunnel to ensure the smooth transition from IPv4 network to IPv6 network.

## Perfect security mechanisms

**Equipment-level security:** The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP-related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions.

Perfect security authentication mechanisms: IEEE 802.1x, Radius and TACACS+.

**Enhanced service security mechanism:** Supports clear text or MD5 authentication of related routing protocols, and Unicast Reverse Path Forwarding (uRPF), which can effectively control illegal services; supports in-depth detection and filtering of control packets and data packets, thereby effectively isolating illegal data packets and improving the security of the network system.

## Highlights

## Innovative eco-friendly design

Intelligent power management system: S5700 series adopts advanced power system architecture design to achieve efficient power conversion, unique power monitoring, slow start function, real-time monitoring of the running status, intelligent adjustment, and deep energy saving.

Intelligent fan management system: Intelligent fan design supports automatic speed regulation, effectively reduces the speed, reduces noise, and prolongs the service life of the fan.

Supports energy efficient Ethernet function and complies with the international standard IEEE 802.3az EEE, effectively reducing energy consumption.

## Intelligent POE++

S5700-P Series supports IEEE 802.3af/at/bt PoE standard, and supports 90W PoE output.

S5700-P Series supports up to a maximum of 760W PoE power budget;

S5700-P Series supports manual and dynamic PoE power allocation:

S5700-P Series supports PoE non-stop power supply.  
The PoE power is maintained during a switch reload.

## Model



## S5700-8EP4X-120

- 8-Port 2.5G/GE PoE+
- 4-Port 10G/GE SFP+
- 120W PoE budget



**S5700-8EP4X-370**

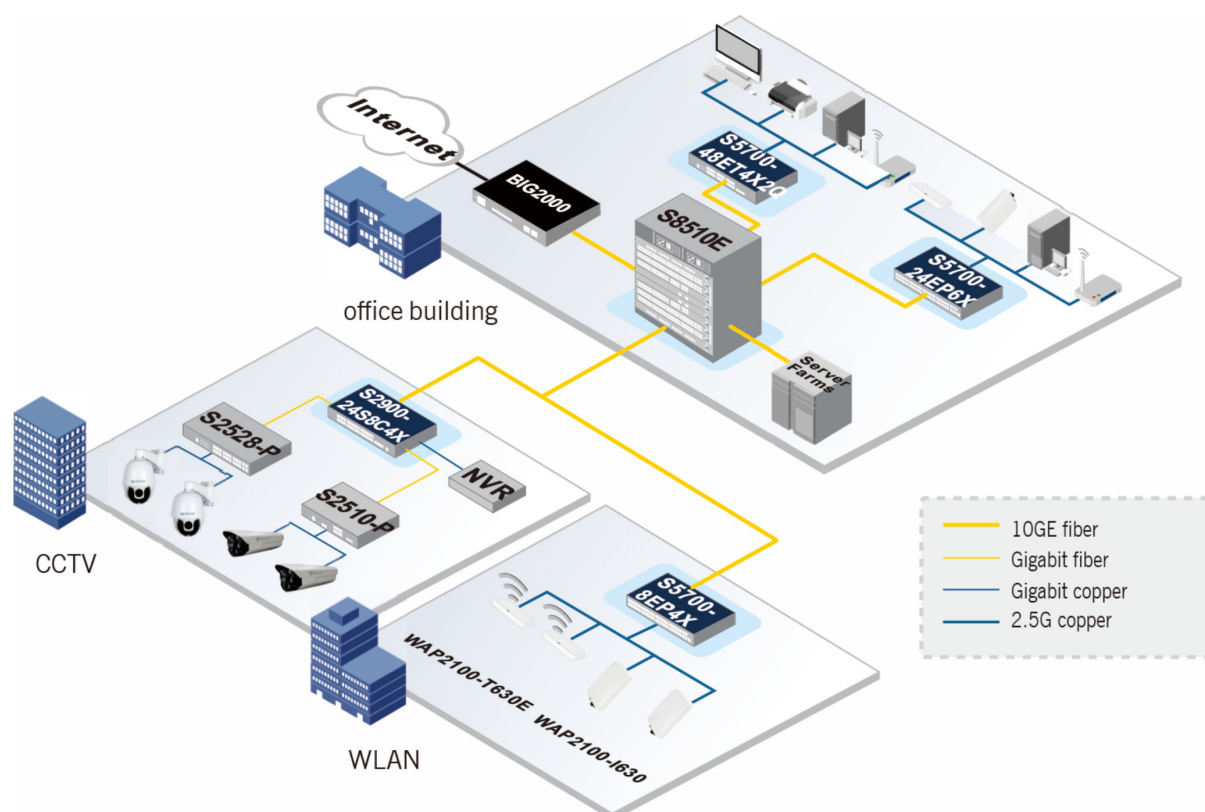
- 8-Port 2.5G/GE PoE++
- 4-Port 10G/GE SFP+
- 370W PoE budget



**S5700-24EP6X-370/760**

- 8-Port 2.5G/GE PoE++
- 16-Port 2.5G/GE PoE+
- 6-Port 10G/GE SFP+
- 370W/760W PoE budget

## Application Diagram



## BDCOM S5700-P Series

# Specifications

Item		S5700-8EP4X-120	S5700-8EP4X-370	S5700-24EP6X-370/760
Interface	RJ45	8-Port 2.5G/GE PoE+	8-Port 2.5G/GE PoE++	8-Port 2.5G/GE PoE++ 16-Port 2.5G/GE PoE+
	SFP+	4-Port 10G/GE	4-Port 10G/GE	6-Port 10G/GE
Console		1-Port RJ45	1-Port RJ45	1-Port RJ45
Switching Capacity		120Gbps	120Gbps	240 Gbps
Forwarding rate		90 Mpps	90 Mpps	180 Mpps
Physical Specifications				
Chassis	Dimensions (WxDxH)(mm)	280x180x44	300x200x44	440x280x44
Package	Dimensions (WxDxH)(mm)	350x268x94	454x96x287	576x448x94
Power				
Power supply		AC: 100V-240V, 50/60Hz	AC: 100V-240V, 50/60Hz	AC: 100V-240V, 50/60Hz
PoE budget		120W	370W	370W/760W
Total output BTU (1000BTU/H=293W)		511.94	1433.45	1433.45/2730.37
Noise@25°C(dBA)		45	45	50
MTBF(H)		>200,000	>200,000	>200,000
Forwarding mode		Store-forward	Store-forward	Store-forward
Flash (MB)		16	16	16
DRAM (MB)		256	256	512
MAC		16K	16K	32K
Buffer size(MB)		1.5	1.5	2
Jumbo frame		9K	9K	9K
Routing table	IPv4	512	512	8K
	IPv6	128	128	4K
ARP table	IPv4	2K	2K	12K
	IPv6	2K	2K	2K
Total SVI		63	63	1K

# Features

## Multicast

- IGMP v1/v2c/v3
- IGMP Snooping
- IGMP Fast Leave
- Multicast group policy and multicast number limit
- Multicast filtering
- MVR
- IGMP snooping in certain port and VLAN
- Support for transparent passing of multicast traffic without IGMP
- snooping in certain port and VLAN
- PIM-DM/SM/SSM

## IPv4

- Static routing, RIP v1/v2, OSPF, BGP
- Policy Based Routing(PBR)
- ECMP
- BFD for static routing, RIP, OSPF, BGP

## DHCP

- DHCP server, client, relay, snooping

## IPv6

- IPv4/v6 dual stack
- ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet
- IPv6 neighbor discovery
- Path MTU discovery
- MLD V1
- MLD snooping
- IPv6 Static Routing, RIPng, OSPFv3, BGP4+
- Manual tunnel, ISATAP tunnel, 6-to-4 tunnel

## QoS

- Traffic classification of port/L2~4 protocol headers/VLAN/CoS/DSCP
- CAR traffic control
- 802.1P/DSCP priority mapping and remark
- Multiple queuing algorithms such as SP, WRR or SP+WRR
- Tail-Drop, WRED
- Traffic supervision and traffic shaping
- 8 queues per port

## Security

- DDoS attack prevention, TCP-SYN/UDP/ARP Flood attack prevention
- IEEE 802.1x authentication, multiple-user authentication, guest vlan
- L2~L4 ACL
- Anti-DOS/IP spoofing/TCP/ping/SYN/ICMP flood attacks
- Broadcast/multicast/unknown-unicast storm-control
- Port isolation
- Port Security, MAC address limitation, IP+MAC+port binding
- DHCP Snooping, DHCP Option 82
- DA(Dynamic ARP Inspection)
- IPSG(IP Source Guard)
- IEEE 802.1x certification
- MAC-based authentication
- AAA
- Radius, TACACS+
- Multiple user privileges

## Reliability

- 802.3ad Static/LACP link aggregation,
- EAPS
- G.8032 ERPS
- ISSU
- VRRP
- GR for OSPF and BGP
- BFD for OSPF and BGP
- BVSS virtual stacking system

## Management

- CLI: Console, Telnet, SSHv1/2
- Web-GUI: HTTP, HTTPS/SSL
- SNMP v1/v2c/v3, RMON, SNMP alarm/inform/traps
- Upload and download of FTP/TFTP/SFTP files
- Debugging
- Syslog for alarm/notification/command/debug
- Web-GUI: HTTP, HTTPS/SSL
- NTP
- SPAN, RSPAN (1:1 and N:1 mirror)
- LLDP, LLDP-MED
- sFLOW
- ZTP(Zero Touch Provisioning)
- Optical DDM
- Ethernet cable diagnosis
- 802.3ah, 802.1ag

## Environment

- Operating temperature/humidity: 0°C -50°C ,10%-90% non-condensing
- Storage temperature/humidity: -20°C -70°C , 5%-95% non-condensing

# Ordering Information

Item	Description
<b>S5700-P series switches</b>	
S5700-8EP4X-120	8-Port 2.5G PoE+ 4-Port 10G SFP+ L3-lite Managed Switch (built-in single AC-220V power supply; 120W PoE budget; with cooling fan, 1U, standard 19-inch rack-mounted installation)
S5700-8EP4X-370	8-Port 2.5G PoE++ 4-Port 10G SFP+ L3-lite Managed Switch (built-in single AC-220V power supply; 370W PoE budget; with cooling fan, 1U, standard 19-inch rack-mounted installation)
S5700-24EP6X-370	8-Port 2.5G PoE++ 16-Port 2.5G PoE+ 6-Port 10G SFP+ L3 Managed Switch (built-in single AC-220V power supply; 370W PoE budget; with cooling fan, 1U, standard 19-inch rack-mounted installation)
S5700-24EP6X-760	8-Port 2.5G PoE++ 16-Port 2.5G PoE+ 6-Port 10G SFP+ L3 Managed Switch (built-in single AC-220V power supply; 760W PoE budget; with cooling fan, 1U, standard 19-inch rack-mounted installation)
<b>Optical Modules</b>	
<b>Gigabit Optical Modules</b>	
GSFP-TX-B	GE SFP-to-RJ45 module
GSFP-SX-D	GE SFP multi-mode (500m, 850nm, LC, DDM)
GSFP-LX-10-D	GE SFP single-mode (10Km, 1310nm, LC, DDM)
GSFP-LX-20-D	GE SFP single-mode (20Km, 1310nm, LC, DDM)
GSFP-LX-40-D	GE SFP single-mode (40Km, 1310nm, LC, DDM)
GSFP-ZX-80-D	GE SFP single-mode (80Km, 1550nm, LC, DDM)
GSFP-ZX-120-D	Gigabit SFP single-mode (120Km, 1550nm, LC, DDM)
GSFP-LX-SM1310-10-BIDI	GE SFP single-mode, single-chip and two-way (10Km, TX1310/RX1550, LC, DDM)
GSFP-LX-SM1550-10-BIDI	GE SFP single-mode, single-chip and two-way (10Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1310-20-BIDI	GE SFP single-mode, single-chip and two-way (20Km, TX1310/RX1550, LC, DDM)
GSFP-LX-SM1550-20-BIDI	GE SFP single-mode, single-chip and two-way (20Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1310-40-BIDI	GE SFP single-mode, single-chip and two-way (20Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1490-80-BIDI	GE SFP single-mode, single-chip and two-way (80Km, TX1490/RX1550, LC, DDM)
GSFP-LX-SM1550-80-BIDI	GE SFP single-mode, single-chip and two-way (80Km, TX1550/RX1490, LC, DDM)
GSFP-LX-SM1490-120	GE SFP single-mode, single-chip and two-way (120Km, TX1490/RX1550, LC, DDM)
GSFP-LX-SM1490-120	GE SFP single-mode, single-chip and two-way (120Km, TX1550/RX1490, LC, DDM)
<b>Optical Modules</b>	
<b>10G Optical Modules</b>	
SFP+TX	10GE SFP+ to RJ45 port module (10M/100M/1000M/2.5G/5G/10G)
SFP+SX	TE SFP+ multi-mode (300m, 850nm, LC)
SFP+LX-10	TE SFP+ single-mode (10Km, 1310nm, LC, DDM)
SFP+LX-20	TE SFP+ single-mode (20Km, 1310nm, LC, DDM)
SFP+LX-40-1310	TE SFP+ single-mode (40Km, 1310nm, LC, DDM)
SFP+LX-40	TE SFP+ single-mode (40Km, 1550nm, LC, DDM)
SFP+LX-80	TE SFP+ single-mode (80Km, 1550nm, LC, DDM)
SFP+AOC-1M	10GE SFP+, 850nm, AOC, 1m, 3.3V, DDM
SFP+LX-SM-1270-10	10GE SFP+ single-mode, single-chip and two-way (10Km, TX1270/RX1330, LC, DDM)
SFP+LX-SM-1330-10	10GE SFP+ single-mode, single-chip and two-way (10Km, TX1330/RX1270, LC, DDM)
SFP+LX-SM-1270-20	10GE SFP+ single-mode, single-chip and two-way (20Km, TX1270/RX1330, LC, DDM)
SFP+LX-SM-1330-20	10GE SFP+ single-mode, single-chip and two-way (20Km, TX1330/RX1270, LC, DDM)
SFP+LX-SM-1270-40	10GE SFP+ single-mode, single-chip and two-way (40Km, TX1270/RX1330, LC, DDM)
SFP+LX-SM-1330-40	10GE SFP+ single-mode, single-chip and two-way (40Km, TX1330/RX1270, LC, DDM)

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