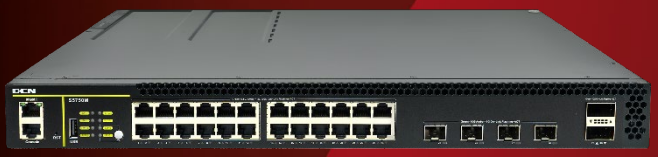
DCN Europe

Switch to
a New Generation

ETHERNET ACCESS SWITCHES
S5750M SERIES

Kreski

Ready for Wi Fi 6



S5750M-30X-P-SI

Full
Layer 3

PIM Router

PoE++
Support

2,5Gb
ports

Features
without hiding
costs

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FULL LAYER 3

- The S5750M series provides powerful switches working in Layer 2 and Layer 3 offering up to 16,000 routing table entries.
- RIP, OSPF and BGP provide dynamic routing by exchanging route information with other layer 3 switches or routers.
- With the S5750M series devices, customers can easily achieve Policy-Based Routing (PBR) functionality when multiple output applications are needed.

PIM ROUTER

- The S5750M series is equipped with a wide range of Protocol Independent Multicast (PIM) functions, including PIM-DM, PIM-SM, PIM-SSM and MSDP.
- Based on PIM router's function, the S5750M series switch can act as a proxy server for multicast traffic. With having many television clients, we can limit the amount of traffic coming from the operator.

POE++ SUPPORT

- The switches from S5750M series quarantee cooperation with end devices which require power supply according IEEE 802.3bt standard, commonly known as PoE++ (60W). This standard can be sucessfully used on the first eight ports of the switch.
- With using redundant PSU (hot-swappable), the device is able to provide up to 1060W of power budget for all supported PoE standards.

2,5GBIT PORTS

- The S5750M series offers up to 24x 2,5 gigabit ports, which allows for faster transmission with end devices connected to these ports directly.
- Devices with 2,5 gigabit ports are adapted particularly for Wifi 6 networks designed based on standard IEEE 802.11ax

FEATURES WITHOUT HIDING COSTS

- With using switches of the S5750M series you can be sure that the equipment which you are using has all available functionalities without the needs to purchase additional licenses.

S5750M	30X-P-SI
Switch Classification	
Layer 3	✓
Connectivity	
10/100/1000/2500Base-T (RJ45) with PoE	24
1000/10GBase-X (SFP+)	4
40GBase-X (QSFP) [1]	2
(10/100/1000Base-T RJ45) – Mgmt OOB port	1
Console port – RS-232 (RJ45)	1
USB port	1
Performance	
Switch fabric speed	360 Gb/s
Forwarding rate	267,85 Mp/s
Packet buffer	4 MB
Jumbo frames	16 K
MAC address table [2]	32 K
Multcast MAC address table	4 K
ACL table	3 K Ingress 1 K Egress
Routing table [3]	16 K
Multicast routing table	8 K
ARP table	16 K
Number of VLAN interfaces (IP)	1 K
CPU clock	dual core – 1 GHz
Flash memory	32MB SPI + 128MB NAND
RAM memory	1 GB
Resilience and availability	
IEEE 802.1D STP/802.1w RSTP/802.1s MSTP	✓
IEEE 802.3ad LACP	✓
Virtual Cable Testing	✓
DDM	✓
LLDP / LLDP-MED	✓
VRRP	✓
Loop guard	✓
ERPS (ITU-T G.8032)	✓
MRPP	✓
ULPP	✓
Traffic control	
IEEE 802.3x Full duplex & Flow control	✓
802.1Q VLANs	✓
Port-based VLAN	✓
Protocol-based VLAN	✓
IP subnet based VLAN	✓
Voice VLAN	✓
Mac VLAN	✓
Super VLAN	✓
LACP algorithm of source/destination IP (load balance)	✓
GVRP	✓
802.1ad Vlan Stacking (QinQ)	✓
Flexible QinQ	✓
Security	
Layer 2 MAC filtering	✓
BPDU Tunnel	✓
BPDU Guard	✓
Login authentication and authorization by Radius and Tacacs+	✓
TACACS+ accounting/ auditing	✓
SSH v1/v2	✓
DHCP/DHCPv6 snooping	✓
IP/IPv6 Source Guard	✓
Port security	✓
IEEE 802.1x port-based / mac-based	✓
QoS	
802.1p Priority Queues per Port	8
802.1p Queuing method	✓
Trusted COS/TOS/IP Precedence/DSCP/Port number	✓
Broadcast Storm Control	✓
Rate Limiting, port based	✓
Strict priority	✓
Weighted Round Robin	✓
Weighted Deficit Round Robin	✓
Weighted Random Early Detection	✓
Strict Priority in Weighted Round Robin	✓
Strict Priority in Weighted Deficit Round Robin	✓

[1] – All QSFP ports are able to be spread transmission for 4x 10Gb Ethernet per port
[2] – MAC address Table shared for unicast and multicast (in 1:1 ratio)
[3] – Routing Table shared for unicast and multicast (in 1:1 ratio)

S5750M	30X-P-SI
L2/L3 - Multicast	
Multicast VLAN	✓
IGMP v1,v2, v3	✓
IGMP Query	✓
IGMP Snooping (v1,v2,v3)	✓
IGMP Snooping Fast Leave(v2,v3)	✓
PIM-DM/SM/SSM	✓
anycast RP	✓
IPv6 MLD v1/v2 Snooping	✓
Routing	
Static routing IPv4/IPv6	✓
RIP v1,v2 / RIPng	✓
OSPF v2 / OSPF v3	✓
BGP / BGP4+	✓
Layer 3 IPv6	
IPv4/IPv6 Dual Protocol Stack	✓
IPv6 address	✓
IPv6 Tunneling	✓
Manageability	
GUI (Web)	✓
Telnet	✓
SNMP v1/v2c/v3	✓
TFTP/FTP	✓
Configuration backup and restore	✓
Multilevel CLI	✓
DNS Client	✓
DHCP Client/Server/Relay	✓
DHCP option 43/60/82	✓
DHCPv6 option 37/ 38	✓
DHCPv6 Relay/Server	✓
SNTP / NTP	✓
sFlow	✓
Port Mirroring per IP/TCP/UDP	✓
RSPAN	✓
Cluster	✓
Stack (VSF)	✓ [5]
Stack (VSF-HA)	–
IEEE 802.3ah EFM	✓
IEEE 802.1ag CFM	✓
MIB	
RFC1066 – TCP/IP-based MIB	✓
RFC1213, 1157 – SNMPv2c/v3 MIB	✓
RFC1493 – bridge MIB	✓
RFC2674 – bridge MIB extension	✓
RFC1643 – ethernet MIB	✓
RFC1757 – RMON group 1,2,3,9	✓
RFC2925 – Remote Management MIB	✓
RFC2233 – SMIv2 MIB	✓
Physical	
Dimensions (Width x Height x Depth)	440 mm x 44 mm x 380 mm
Operating temperature	0 °C ~ 50 °C
Humidity	10% - 90% (no condensation)
Cooling	active
Electrical	
PoE standards	IEEE 803.3bt (first 8 ports) IEEE 802.3at IEEE 803.3af
PoE power budget	1060 W
PSU	M5700-AC-B [6]
Power supply	230V AC, Hot Swap
Redundant power supply	230V AC, Hot Swap
Power consumption	≤ 1200 W

[5] – Possible to create the virtual stack using by SFP+ or QSFP ports
[6] – One PSU can generate 530W for PoE power budget