



Commercial Access Switch Extensive Switching Solutions

4-PORT L2 (Commercial Access Switch)

4-Port L2 Managed



PoE Budget Flexibility with Smart PoE

Secured Operating System

Management with Automation Capabilities



Overview

- Fully Managed L2 Switch with wire speed Non-Blocking Architecture
- All Gigabit Ethernet Ports in a fixed 1U configuration
- Four 1G Access ports with PoE and Non-PoE Options
- 2/4 1G Uplink Ports that allow termination of both fiber and copper simultaneously
- Multiple Power Supply options (Single, Redundant, Universal (AC+DC)) to choose from
- Upto 16 Gbps Switching capacity and up to 8 Gbps of Full-Duplex Throughput
- PoE Variants Suitable in an enterprise/telco environment to connect end PoE clients like Wi-Fi AP, CCTV, P2P, P2MP, IoT etc.
- Non PoE Variants Suitable to connect Small Cells / BTS, P2P / P2MP etc. in telco environment and Desktops/Servers, IP-Phone etc. in an Enterprise / Campus environment



HSP 4-Port L2 Managed Switch Variants

Model: HSP-IO-4GE2S-C2U

HFCL 4-Port Non-PoE L2 Managed Switch with 2×1G SFP Uplinks and Universal Power Supplies

Model: HSP-IO-4GE2S-C2D

HFCL 4-Port Non-PoE L2 Managed Switch with 2×1G SFP Uplinks and Single DC Power Supply

Model: HSP-IO-4GE2S-C2A

HFCL 4-Port Non-PoE L2 Managed Switch with 2×1G SFP Uplinks and Single AC Power Supply

Model: HSP-IO-4GE2S-CPD

HFCL 4-Port PoE+ L2 Managed Switch with 2x1G SFP and 2x1G RJ45 Uplinks and Dual DC Power Supplies

Features



Switch Ports

- 4×10/100/1000 Base-T Gigabit Access Ports
- 2×10/100/1000 Base-T + 2×1G SFP Gigabit Uplink Ports (PoE Variants)
2×1G SFP Uplink Ports (Non-PoE Variants)
- One Serial Console Port
- Link / Speed / PoE LED Status on All ports
- System status LED & onboard RESET button



Switching / Forwarding Capacity

- **Switching Capacity:** PoE+ Variants: 16 Gbps,
Non-PoE Variants: 12 Gbps
- **Forwarding Capacity:** PoE+ Variants: 11.9 MPPS,
Non-PoE Variants: 8.93 MPPS



Rich L2 Features

- Support 4094 VLAN IDs, 16K MAC Table, Voice VLAN
- L2 Loop Avoidance – STP/RSTP, MSTP, ERPS, STP Root and Edge Port Protection
- Multicast - IGMP v1/v2/v3 Snooping, IGMP filtering, IGMP proxy, MLD Snooping
- LACP based LAG and Static LAG with Traffic load share and active-standby policies
- Static Routing and Inter-VLAN Routing, Dual Stack and IPv6 Compliant
- 802.1q and QinQ (Port based and Selective), MVRP
- QoS – Up to eight priority queues, Rate Limiting/Policing, CIR/EIR, Shaping (SPQ / WRR/ WFQ), Multi-Field (802.1p / DSCP) Classification and Remarking
- LLDP / LLDP MED to identify end points, IP Phones etc.
- Jumbo MTU upto 9198 Bytes



Security Features

- L2/L3/L4 ACL
- 802.1X Port Security with Radius CoA, dACL, Accounting & Dynamic VLAN Assignment
- TACACS+ / RADIUS AAA
- DHCP snooping, ARP Inspection, IPv6 ND Inspection
- MAC-IP Anti spoofing, MAC Address Notification
- Inherent DoS Attack Prevention
- Storm Control - Broadcast, Multicast and Unknown Unicast



Industry Standard Management with Automation

- CLI and GUI options
- Dual-Stack (IPv4 and IPv6) Management
- Telnet, SSHv2 and SNMP v1/v2/v3 support
- NTP, FTP, TFTP, SCP, SFTP, Port Mirroring, Traceroute
- DHCP Client and Relay
- Built-in Event Policy / Scheduler Framework for Automation
- Zero Touch Provisioning



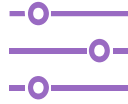
PoE Capabilities (PoE Variant)

- Each access port comply with 802.3af/802.3at with Max power output of 30W per port
- Provides PoE Budget of up to 120W
- Smart PoE Capabilities like dynamic and static allocation of power to end host, PoE Port priority, and PoE Traffic Monitor



Power Supply Options

- The Universal Supply with option of either connecting to an AC or DC input (100V to 240V AC, -36V to 57V DC)
- Single Supply option: Only AC or DC input
- Redundant DC supplies



Other Design Parameters

Operating Temperature:
0°C to 55°C

Passive Cooling with
Fanless Design

1U Fixed
Configuration



Applications

Suitable for secured access/edge network deployment for various Enterprise and Telco applications like Campus/IT, Radio, Surveillance, Wi-Fi, IoT, and last-mile Ethernet Aggregation



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