



Commercial Access Switch 4-Port L2 Managed

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.

Key Feature Highlights		
All Gigabit Ports	Access ports with both PoE and Non-PoE options and Uplink Ports with both copper and fiber termination options. Support Auto MDIX as well as Auto-Negotiation on RJ45 based ports.	
Smart PoE (PoE Variants only	802.3af/802.3at support on all access ports simultaneously. Smart PoE Capabilities like dynamic and static allocation of power to end host, PoE Port priority, and PoE Traffic Monitor.	
Go-Green	Comply with Energy Efficient Ethernet Standards (802.3az).	
Power supply flexibility	Power supply with Single, Redundant & Universal (AC+DC) options.	
Secured OS	Powered by fully indigenously developed NiOS with a Security hardened protocol stack and features like L2/L3/L4 ACL, DHCP snooping, Dynamic ARP Inspection, 802.1x Port Security with dACL.	
Rich L2 Features	Dual-Stack (IPv4/IPv6) Support, 4K VLAN, 16K MAC, L2 loop avoidance mechanisms like STP/RSTP/MSTP/ERPS, L2 Multicast (IGMP), QoS, Static Routing.	
Industry Standard Management	Support secured management access over CLI and Web with built-in scripting and event scheduler framework.	

Switch Ports

- 1 4x10/100/1000 Base-T Gigabit Access Ports.
- 2 2x10/100/1000 Base-T + 2x1G SFP Gigabit Uplink Ports (PoE Variants). 2x1G SFP Uplink Ports (Non-PoE Variants).
- 3 One Serial Console Port.
- 4 Link / Speed / PoE LED Status on All ports.
- **5** 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

- 1 Support 4094 VLAN IDs, 16K MAC Table, Voice VLAN.
- 2 L2 Loop Avoidance STP/RSTP, MSTP, ERPS, STP Root and Edge Port Protection.
- 3 Multicast IGMP v1/v2/v3 Snooping, IGMP filtering, IGMP proxy
- 4 LACP based LAG and Static LAG with Traffic load share and active -standby policies.
- 5 Static Routing and Inter-VLAN Routing, Dual Stack and IPv6 Compliant.
- 6 802.1q 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.
- 8 LLDP / LLDP MED to identify end points, IP Phones etc.
- 9 Jumbo MTU upto 9198 Bytes.

Security Features

- 1 L2/L3/L4 ACL.
- 2 802.1X Port Security with Radius CoA, dACL, Accounting & Dynamic VLAN Assignment.
- **3** TACACS+ / RADIUS AAA.
- 4 DHCP snooping, ARP Inspection, IPv6 ND Inspection.
- **5** MAC-IP Anti spoofing, MAC Address Notification.
- 6 Inherent DoS Attack Prevention.
- 7 Storm Control Broadcast, Multicast and Unknown Unicast.

Industry Standard Management with Automation				
1	CLI and GUI options.			
2	Dual Stack (IPv4 and IPv6) Management.			
3	Telnet, SSHv2 and SNMP v1/v2/v3 support.			
4	NTP, FTP, TFTP, SCP, SFTP, Port Mirroring, Traceroute.			
5	DHCP Relay & Client *			

- 6 Built-in Event Policy / Scheduler Framework for Automation.
- **7** Zero Touch Provisioning.

* Contact sales representative for use case

PoE Capabilities (PoE Variants only)

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

Power Supply Options

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

Other Design Parameters

- 1 Operating Temperature 0°C to 55°C.
- 2 Passive Cooling with Fan less Design.
- 3 1U fixed configuration.

HSP 4-Port L2 Managed Switch Variants:

Model: HSP-IO-4GE2S-C2U		
Description	HFCL 4-Port Non-PoE L2 Managed Switch with 2x1G SFP Uplinks and Universal Power Supplies.	
Ports Configuration	4x10/100/1000-Base-T + 2x1G SFP + 1xRJ45 Serial Console Port.	
Power Supply	Universal Supply with option of either connecting to an AC or DC input.	

Model: HSP-IO-4GE2S-C2D		
Description	HFCL 4-Port Non-PoE L2 Managed Switch with 2x1G SFP Uplinks and Single DC Power Supply.	
Ports Configuration	4x10/100/1000-Base-T + 2x1G SFP + 1xRJ45 Serial Console Port.	
Power Supply	Single Integrated DC Power Supply.	

Model: HSP-IO-4GE2S-C2A		
Description	HFCL 4-Port Non-PoE L2 Managed Switch with 2x1G SFP Uplinks and Single AC Power Supply.	
Ports Configuration	4x10/100/1000-Base-T + 2x1G SFP + 1xRJ45 Serial Console Port.	
Power Supply	Single Integrated AC Power Supply.	

Model: HSP-IO-4GE2S-CPD		
Description	HFCL 4-Port PoE+ L2 Managed Switch with 2x1G SFP and 2x1G RJ45 Uplinks and Dual DC Power Supplies.	
Ports Configuration	4x10/100/1000-Base-T (PoE+) + 2x1G SFP + 2x1G RJ45 + 1xRJ45 Serial Console Port.	
Power Supply	Dual Redundant DC Power Supplies.	

Certifications

• Software: IPV6 Ready Logo Certified



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