



## Commercial Access Switch

### 8-Port L2 Managed (8 GE access + 4 GE uplink)

#### Overview

Fully Managed L2 Switch with wire speed Non-Blocking Architecture

All Gigabit Ethernet Ports in a fixed 1U configuration

Eight 1G Access ports with PoE and Non-PoE Options

Four 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 24 Gbps Switching capacity and up to 12 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.

# Technical Specifications

## Switch Ports

1	8×10/100/1000 Base-T Gigabit Access Ports
2	2×10/100/1000 Base-T + 2×1G SFP Gigabit Uplink Ports with the flexibility to terminate the connection on copper as well as fiber simultaneously
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	24 Gbps
Forwarding Capacity	17.86 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, MLD Snooping
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
7	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

- 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

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 Client & Relay
6	Built-in Event Policy / Scheduler Framework for Automation
7	Zero Touch Provisioning

## PoE Capabilities (PoE Variants only)

1	Each access port comply to 802.3af/802.3at with Max power output of 30W per port
2	PoE Budget options: 120W, 180W & 240W
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

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

## HSP 8-Port L2 Managed Switch Variants:

### Model: HSP-IO-8GE2S-C2U

Description	HFCL 8-Port Non-PoE L2 Managed Switch with 2×1G SFP and 2×1G RJ45 Uplinks and Universal Power Supplies
Ports Configuration	8×10/100/1000-Base-T + 2×1G SFP + 2×1G RJ45 + 1xRJ45 Serial Console Port
Power Supply	Universal Supply with option of either connecting to an AC or DC input

### Model: HSP-IO-8GE2S-C2D

Description	HFCL 8-Port Non-PoE L2 Managed Switch with 2×1G SFP and 2×1G RJ45 Uplinks and Single DC Power Supply
Ports Configuration	8×10/100/1000-Base-T + 2×1G SFP + 2×1G RJ45 + 1xRJ45 Serial Console Port
Power Supply	Single Integrated DC Power Supply

### Model: HSP-IO-8GE2S-C2A

Description	HFCL 8-Port Non-PoE L2 Managed Switch with 2×1G SFP and 2×1G RJ45 Uplinks and Single AC Power Supply
Ports Configuration	8×10/100/1000-Base-T + 2×1G SFP + 2×1G RJ45 + 1xRJ45 Serial Console Port
Power Supply	Single Integrated AC Power Supply



### Model: HSP-IO-8GE2S-C2DH

<b>Description</b>	HFCL 8-Port Non-PoE L2 Managed Switch with 2×1G SFP and 2×1G RJ45 Uplinks and Dual DC Power Supplies
<b>Ports Configuration</b>	8×10/100/1000-Base-T + 2×1G SFP + 2×1G RJ45 + 1xRJ45 Serial Console Port
<b>Power Supply</b>	Dual Redundant DC Power Supplies

### Model: HSP-IO-8GE2S-C2PU

<b>Description</b>	HFCL 8-Port PoE+ L2 Managed Switch with 2×1G SFP and 2×1G RJ45 Uplinks and Universal Power Supplies
<b>Ports Configuration</b>	8×10/100/1000-Base-T (PoE+) + 2×1G SFP + 2×1G RJ45 + 1xRJ45 Serial Console Port
<b>Power Supply</b>	Universal Supply with option of either connecting to an AC or DC input

### Model: HSP-IO-8GE2S-C2PD

<b>Description</b>	HFCL 8-Port PoE+ L2 Managed Switch with 2×1G SFP and 2×1G RJ45 Uplinks and Single DC Power Supply
<b>Ports Configuration</b>	8×10/100/1000-Base-T (PoE+) + 2×1G SFP + 2×1G RJ45 + 1xRJ45 Serial Console Port
<b>Power Supply</b>	Single Integrated DC Power Supply

### Model: HSP-IO-8GE2S-C2PA

<b>Description</b>	HFCL 8-Port PoE+ L2 Managed Switch with 2×1G SFP and 2×1G RJ45 Uplinks and Single AC Power Supply
<b>Ports Configuration</b>	8×10/100/1000-Base-T (PoE+) + 2×1G SFP + 2×1G RJ45 + 1xRJ45 Serial Console Port
<b>Power Supply</b>	Single Integrated DC Power Supply

### Model: HSP-IO-8GE2S-C2PDH

<b>Description</b>	HFCL 8-Port PoE+ L2 Managed Switch with 2×1G SFP and 2×1G RJ45 Uplinks and Dual DC Power Supplies
<b>Ports Configuration</b>	8×10/100/1000-Base-T (PoE+) + 2×1G SFP + 2×1G RJ45 + 1xRJ45 Serial Console Port
<b>Power Supply</b>	Dual Redundant DC Power Supplies



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