



Aggregation Switch

24-Port L3

HSP-IO-24GE4XS-C3AH-C

Overview:

- Fully Managed L3 Aggregation Stackable Switches
- All Gigabit Ethernet Access Ports with 10G Uplinks in a fixed 1U configuration
- 24 1G Access ports with all copper or all SFP options.
- 4 10G Uplink Ports that allow termination on either fiber or copper based on SFP module.
- Multiple Power Supply options (Single, Redundant) to choose from
- Upto 228 Gbps Switching capacity and up to 114 Gbps of Full-Duplex Throughput
- Dedicated 2×25G Stacking Ports.
- Suitable as aggregation/ distribution switch in Enterprise/ Campus and Telco Environment.

USPs

All Gigabit Ports	Gigabit access ports with all copper or all SFP options with 208G non-blocking Switching Capacity.
High Speed 10G/25G Ports	High Speed 10G Uplinks and dedicated 25G Stacking Ports with both copper and fibre termination options basis SFP Module.
Go-Green	Comply with Energy Efficient Ethernet Standards (802.3az).
High Availability	Dual Redundant Power supplies for uninterrupted operations.
Secured OS	Powered by fully indigenously developed NiOS with 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
Rich L3 Features	Static and Dynamic Routing Protocols such as OSPFv2/v3, RIPv1/v2, RIPng, BGP, ECMP, VRRP, PBR
Industry Standard Management	Support secured management access over CLI and Web with built-in scripting and event scheduler framework.

Description:

HFCL 24-Port L3 Managed Aggregation Switch with 4×10G SFP+ Uplinks and Dual AC Power Supplies.

Switch Ports

- 1 24×10/100/1000 Base-T Gigabit Access Ports.
- 2 4×10G SFP+ Uplink Ports with flexibility to terminate connection on copper as well as fiber based on SFP module. Compatible with 1G SFP Modules.
- 3 Optional 2×25G Stacking Ports
- 4 One Serial Console Port
- 5 One RJ45 Management Port
- 6 Link / Speed / LED Status on All ports
- 7 All Ports comply with IEEE Standard - 802.3az

Switching / Forwarding Capacity

Switching Capacity	128 Gbps (without stacking), 228 Gbps (with stacking)
Forwarding Capacity	95.24 MPPS (without stacking), 169.64 MPPS (with stacking)

Power Supply Options

- 1 Dual AC Supply for High Availability.
- 2 Max Power consumption is < 50W.

Rich L2 Features

- 1 Support up to 4K VLANs and 64K MAC Table
- 2 L2 Loop Avoidance – RSTP, MSTP, ERPS
- 3 Multicast - IGMP v1/v2/v3, IGMP filtering, IGMP proxy.
- 4 LACP based LAG and Static LAG with Traffic load share and active –standby policies.
- 5 Static Routing & 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 Classification and Remarking.

L3 Features – (L3 Lite Variant)

Routing Table Capacity	32K
Dynamic Routing Protocols	OSPFv2/v3, RIPv1/v2/nG, BGP, PBR, ECMP
Gateway Redundancy Protocol	VRRP

Security Features

1	L2/L3/L4 ACL
2	802.1X Port Security, Downloadable ACLs, Radius CoA
3	TACACS+ / RADIUS AAA
4	DHCP snooping, ARP Inspection, IPv6 ND Inspection
5	MAC-IP Anti spoofing
6	Inherent DoS Attack Prevention
7	MACSec (Optional MACsec Variant)

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 for time synchronization, FTP/TFTP/SCP/SFTP for file transfer
5	DHCP Client & Relay
6	Built-in Event Policy / Scheduler Framework for Automation
7	Zero Touch Provisioning

Other Design Parameters – * Remains same across all HSP 24-Port commercial variants

1	Operating Temperature - 0°C to 50°C
2	Fans for Cooling
3	1U fixed configuration

Other HSP 24-Port L3 Managed Aggregation Switch Variants:

Model: HSP-IO-24S4XS-C3AH-C	
Description	HSP 24-Port SFP L3 Managed Aggregation Switch with 4×10G SFP+ Uplinks and Dual AC Power Supplies
Ports Configuration	24×1G SFP + 4×10G SFP+ + 1xRJ45 Serial Console + 1xRJ45 Management + 1 USB Port + 2×25G Stacking Ports (Optional)
Power Supply	Dual AC Power Supplies (Max Power Consumption < 50W) ** Layer-2, Switching/Forwarding Capacity, L3, Security & Management Features remain same as for model HSP-IO-24GE4XS-C3AH-C



Email: iosupport@hfcl.com
Website: www.hfcl.com | www.io.hfcl.com
Office: 8, Commercial Complex, Masjid Moth
Greater Kailash II, New Delhi 110048