



Commercial Access Switch

24-Port L2

HSP-10-24GE4S-C2AH

Overview:

- Fully Managed L2 Switch
- All Gigabit Ethernet Ports in a fixed 1U configuration
- 24 1G Access ports with PoE and Non-PoE Options
- 4 1G Uplink Ports that allow termination of both fiber or copper based on SFP module
- Multiple Power Supply options (Single, Redundant) to choose from
- Upto 56 Gbps Switching capacity and up to 28 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 environment.

USPs

All Gigabit Ports	Access ports with both PoE and Non-PoE options and up to 56G non-blocking Switching Capacity. Uplink Ports with both copper and fibre termination options basis SFP Module.
Smart PoE	802.3af/802.3at support on all access ports simultaneously with Flexible PoE Budgets of 370W & 720W. 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 & Dual Redundant options 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, Static Routing
Industry Standard Management	Support secured management access over CLI and Web with built-in scripting and event scheduler framework.

Description:

HFCL 24-Port Non-PoE L2 Managed Switch with 4×1G SFP Uplinks and Dual AC Power Supplies.

Switch Ports

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

Switching / Forwarding Capacity

Switching Capacity 56 Gbps

Forwarding Capacity 41.67 MPPS

Power Supply Options

- 1 Dual AC Power Supply for High Availability
- 2 Max Power consumption is < 30W

Rich L2 Features

- 1 Support up to 4K VLANs and 16K 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
- 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

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 4-Port commercial variants

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

Other HSP 24-Port L2 Managed Switch Variants:

Model: HSP-IO-24GE4S-C2A

Description	HSP 24-Port Non-PoE L2 Managed Switch with 4×1G SFP Uplinks and Single AC Power Supply
Ports Configuration	24×10/100/1000-Base-T + 4×1G SFP + 1xRJ45 Serial Console + 1xRJ45 Management
Switching / Forwarding Capacity	56 Gbps / 41.67 MPPS
Power Supply	Single Integrated AC Power Supply (Max Power Consumption < 30W) ** Layer-2, Security & Management Features remain same as for model HSP-IO-24GE4S-C2AH

Model: HSP-IO-24GE4S-C2PA

Description	HSP 24-Port PoE+ L2 Managed Switch with 4×1G SFP Uplinks and Single AC Power Supply
Ports Configuration	24×10/100/1000-Base-T + 4×1G SFP + 1xRJ45 Serial Console + 1xRJ45 Management
PoE Capabilities:	Each access port comply to 802.3af/802.3at with Max power output of 30W per port. Provides PoE Budget of up to 720W Smart PoE Capabilities like dynamic and static allocation of power to end host, PoE Port priority and PoE Traffic Monitor.
Switching / Forwarding Capacity	56 Gbps / 41.67 MPPS
Power Supply	Single Integrated AC Power Supply. (Max Power Consumption < 30W without PoE) ** Layer-2, Security & Management Features remain same as for model HSP-IO-24GE4S-C2AH

Model: HSP-IO-24GE4S-C2PAH

Description	HSP 24-Port PoE+ L2 Managed Switch with 4×1G SFP Uplinks and Dual AC Power Supplies
Ports Configuration	24×10/100/1000-Base-T + 4×1G SFP + 1xRJ45 Serial Console + 1xRJ45 Management
Switching / Forwarding Capacity	56 Gbps / 41.67 MPPS
Power Supply	Dual AC Power Supplies. (Max Power Consumption < 30W without PoE) ** Layer-2, Security, PoE & Management Features remain same as for model HSP-IO-24GE4S-C2PA



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