

## HFCL 4-Port Switch

### HSP-IO-4GE2S-CPD

#### Commercial Access Switch Product



### Overview

- Managed L2 Switch with wire speed Non-Blocking Architecture
- Up to 16 Gbps switching capacity and 11.90 MPPS of Full-Duplex throughput
- Highly secure with security hardened protocol stack and Inherent DoS attack prevention
- All Gigabit PoE+ Ethernet Ports in a fixed 1U configuration
- 2x1G RJ45 and 2x1G SFP Uplink ports that allow termination of both fiber and copper
- Suitable to connect small cells / BTS, P2P, P2MP, SOHO and remote connectivity

### Key Feature Highlights

#### All Gigabit Ports

Access ports with 10/100/1000 Mbps and SFP Uplink Ports with both copper and fiber termination options (SFP based). Support Auto MDIX as well as Auto-Negotiation on RJ45 based ports.

#### 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 (via SNMP Server) with built-in scripting and event scheduler framework.

#### Go-Green

Comply with Energy Efficient Ethernet Standards (802.3az).

### Switch Ports

- 4x10/100/1000 Base-T Gigabit Access Ports
- 2x1G SFP Uplink Ports (MSA Compliant)
- One Serial Console Port
- Link / Speed / LED Status on All ports
- System status LED & onboard RESET button

### Industry Standard Management & Automation

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

\*Contact sales representative for use case

## 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
- LACP based LAG and Static LAG with Traffic load share and active –standby policies
- Static Routing & 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

## Certifications

- **Software:** IPV6 Ready Logo Certified

## Power Supply Options

- Power Supply: Dual DC

## 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
- MAC-IP Anti spoofing, MAC Address Notification
- Inherent DoS Attack Prevention
- Storm Control - Broadcast, Multicast and Unknown Unicast

## Switching / Forwarding Capacity

**Switching Capacity** 16 Gbps

**Forwarding Capacity** 11.90 MPPS

## Design Parameters

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

## Ordering Information

Model No.	Description
<b>HSP-IO-4GE2S-C2PD</b>	IO, 4-Port, PoE/PoE+, L2 Managed Switch, 2x1G SFP + 2x1G RJ45 Uplinks, Dual DC Power Supply
<b>HSP-IO-Cable-AC-IN</b>	AC Power Cable, 1.5M (India Plug)

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