



# Industrial Access Switch

## 8-Port Industrial L2

### HSP-IO-8GE2S-I2PDH

#### Description:

HFCL 8-Port PoE+ L2 Managed Industrial Switch with 2x1G SFP and 2x1G RJ45 Uplinks and Dual DC Power Supplies.

#### Overview

Fully Managed L2 Switch with wire speed Non-Blocking Architecture

All Gigabit Ethernet Ports in a fixed configuration

Four 1G PoE+ Capable Access ports

Four 1G Uplink Ports that allow termination of both fiber and copper simultaneously

Dual Redundant Power supply for high availability

Rugged Design with DIN rail mount suitable for outdoor applications

Upto 24 Gbps Switching capacity and up to 12 Gbps of Full-Duplex Throughput

Suitable in an enterprise / telco / campus environments to connect end PoE clients like Wi-Fi AP, CCTV, P2P, P2MP, IoT etc.

# Key Feature Highlights



## All Gigabit Ports

Access ports with PoE+ capability and Uplink ports with both copper and fiber termination options. Support Auto MDIX as well as Auto-Negotiation on RJ45 based ports.



## Smart PoE

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).



## High Availability

Dual Redundant DC Power Supply 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.



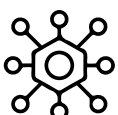
## Rich L2 Features

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.



## Rugged Design

Temperature hardened with DIN rail mount that makes it suitable for outdoor applications.

# Technical Specifications

## Switch Ports

- 1 8×10/100/1000 Base-T Gigabit Access Ports with PoE+ support.
- 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

<b>Switching Capacity</b>	24 Gbps
<b>Forwarding Capacity</b>	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

- 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 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 Dual DC Supply for High Availability.
- 2 DC Operating voltage range: -44V to 57V DC

## Other Design Parameters

- Operating Temperature: -40°C to 75°C
- Rugged Design with DIN Rail Mount as well as Rack Mount options



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