



## Product Datasheet

Part Code: MHUB-8port-4SFP-PoE

## Industrial Managed Switch PoE

The Vidiwave MHUB-8port-4SFP-PoE managed Industrial Ethernet switches are equipped with up to 12 Gigabit Ethernet ports. The built-in redundant Ring (recovery time < 20ms), RSTP/STP can increase system reliability and your network availability. It is an Industrial-grade design with a -40 to +75°C operating temperature and redundant power inputs. The extended hardware reliability is especially suitable for industrial HD Video applications using 4K IP cameras.

### Key Features

- Up to 12 Gigabit ports (4 100/1000BaseX SFP ports and 8 10/100/1000BaseTX ports)
- Command Line Interface (CLI) for quickly configuring major managed functions
- Vidiwave's Ring Protocol (recovery time < 20 ms), RSTP, STP and MSTP for network redundancy
- IGMP snooping and GMRP for filtering multicast traffic
- Support up to 16k byte Jumbo Frame
- Support 8K MAC address
- Max. Number of Available VLANs: 4094
- Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- DHCP Option 82 for IP address assignment with different policies
- Support port mirroring
- Support traffic control of multicast and broadcast
- QoS and ToS/DiffServ to increase determinism
- Port Trunking for optimum bandwidth utilization
- SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- SNMPv1/v2c/v3 for different levels of network management
- RMON for efficient network monitoring and proactive capability



### Specifications

Ethernet Specifications	Store and forward mode: Non-blocking switching
	Switch fabric:24Gbps
	Support up to 16k byte Jumbo Frame
	Support 8K MAC address
	Support MAC address black hole
	Support MAC address learning limit
	Support port-based VLAN
	Support 802.1Q VLAN (4K VLANs)
	Support protocol-based VLAN



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#### Specifications....continued

Ethernet Specifications (continued)	Support GVRP/GARP (Generic VLAN Registration Protocol)
	Support VLAN isolation (16)
	Support VLAN translation
	Support VLAN VPN (QinQ)
	Support LACP
	Support static link aggregation
	Support up to 16 aggregation groups and up to 8 ports per group
	Support 802.3x in full duplex mode
	Support back pressure in half duplex mode
	Discovery remote base on link layer
	Auto shutdown individual ports upon fault signals
	Auto-detection interval can be set
	Support STP/RSTP, Support MSTP
	Support IGMP snooping v1/v2/v3
	Support static multicast groups
	Support DHCP client
	Support DHCP snooping
	Support DHCP relay option82
	Support hierarchical management and password protection of users
	Support IEEE 802.1X authentication
	Support centralized MAC address based authentication
	Support traffic classification based on source MAC address, destination MAC address, source IP address, destination IP address, Layer 4 port, protocol type, VLAN, and so on
	Flow-based traffic rate limit
	Support flow-based priority tag
	Flow-based redirection of packets to another port
	Flow-based traffic statistics
	Support SP/WRR/SP+WRR queue scheduling
	Support flexible port mirroring, up to 4 port mirroring groups, monitoring network traffic by sending copies of all incoming and outgoing packets from the mirroring ports to a monitoring port.
	Support port traffic shaping



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#### Specifications....continued

MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 MAC Table Size: 8K Max. Number of Available VLANs: 4094 VLAN ID Range: VID 1 4094 IGMP Snooping Groups: 256 Packet Buffer Size: 512Kb Jumbo Frame Size: 16Kb
Interface	Fiber Ports: 1000BaseSFP slot RJ45 Ports: 10/100/1000BaseT(X) auto negotiation speed Console Port: RS-232 Button: Reset button
LED Indicators	System indicator: SYS Power indicator: PWR
Interface indicator	SFP Ports: Link/ Act G1,G2,G3,G4 RJ45 Ports: LinkG5,G12, ActG5,G12
Alarm Contact	1 relay output with current carrying capacity of 1 A @ 24 VDC
Power Requirements	Input Voltage: 24VDC(12 to 36VDC),redundant dual inputs Connection: 6-contact terminal blocks No-load Power: 3.0W@24VDC Full Load Power: <0.24A@24VDC, <6W Overload Current Protection: Present Reverse Polarity Protection: Present Redundant protection: Present
Physical Characteristics	Housing: IP40 protection, High strength aluminium profile Installation: DIN-rail mounting, wall mounting Weight: 750g Dimensions(W x H x D): 60.2 mm x 138.5mm x 112.5mm

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#### Specifications....continued

Ethernet Standards	IEEE 802.3
	IEEE 802.3u
	IEEE 802.3z
	IEEE 802.3ab
	IEEE802.3-2005 Clause 58/59
	IEEE 802.1X (Security)
	IEEE 802.3x (Flow Control)
	IEEE 802.3ad (Link Aggregation)
	IEEE 802.1D (STP)
	IEEE 802.1w (RSTP)
	IEEE 802.1s (MSTP)
	IEEE 802.1Q (VLANs)
	IEEE 802.1Q (GVRP/GARP)
	IEEE 802.3ac (VLAN Tag Frame Extension)
	IEEE 802.1p (CoS)
Administration Protocol	RFC 826 (ARP)
	RFC 1812 (IPv4 Router)
	RFC 783 (TFTP)
	RFC 768 (UDP)
	RFC 791 (IP)
	RFC 792 (ICMP)
	RFC 793 (TCP)
	RFC 2474 (Diffserv)
	RFC 2131 (DHCP)
	RFC 2267 (Network Ingress Filtering)
	RFC 1156 (TCP/IP MIB)
	RFC 1212 (Concise MIB definitions)
	RFC 1213 (MIB for Network Management of TCP/IP based internets (MIB II))
	RFC 2618 (Radius Authentication Client MIB)
	RFC 2620 (Radius Accounting MIB)