

HMS-HRM-F164SPp

L2+ Managed 16-port 10/100/1000Base-TX (PoE+) + 4-port 10/100/1000Base-TX or 100/1000Base-SFP Combo Ethernet Switch with AC Power Input

Features



- L2+ Managed features provide easier manageability, robust security and QoS
- 16 10/100/1000Base-TX PoE+ ports + 4 10/100/1000Base-TX or 100/1000Base-SFP combo ports
- Support IEEE802.3af/at (up to 30W)
- Support ERPS ring network protocol of ITU G.8032 standard, self-healing time less than 20ms
- PoE Port timing schedule for energy savings
- Intelligent power recycling for PDs
- Trap event alert via CLI/Web/SNMP management interfaces
- IEEE 802.1Q tagged 4K VLANs groups, out of 4094 VLAN IDs
- Supports provider bridging (VLAN Q-in-Q, IEEE 802.1ad)
- IGMP v1, v2, v3 Snooping
- AC Power Input
- 19" 1U Rack-mount

Specifications

Ethernet

Standards

IEEE 802.3 for 10BaseT
 IEEE 802.3u for 100BaseT(X) and 100BaseFX
 IEEE 802.3ab for 1000BaseT(X)
 IEEE 802.3z for 1000BaseSX/LX/LHX/ZX
 IEEE 802.3x for flow control
 IEEE 802.1D-2004 for Spanning Tree Protocol
 IEEE 802.1w for Rapid Spanning Tree Protocol
 IEEE 802.1s for Multiple Spanning Tree Protocol
 IEEE 802.1p for Class of Service
 IEEE 802.1Q for VLAN Tagging
 IEEE 802.1X for authentication
 IEEE 802.3ad for Port Trunk with LACP
 Store-and-forward (full/half duplex mode)

Processing Type

Forward Filter Rate

14,880pps (10Mbps)
 148,800pps (100Mbps)
 1,488,000pps (1000Mbps)

Packet Buffer Memory

4Mbits

Max Packet Length

Up to 10K bytes

Address Table Size

8K MAC Addresses

Backplane Bandwidth

56 Gbps

Switching Capacity

56 Gbps

Packet Forwarding Rate

47.616 mpps

Exchange Property

Delay time < 7μs

IGMP Groups

4096

Max. No. of VLAN

256

VLAN ID Range

VID 1 to 4094

Console Port

1 x RJ45

Interface

RJ45 Ports	16 x 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDI-X
Combo Ports	4 x 100/1000Base-SFP (Suggest HEPDA SFP) or 4 x 10/100/1000Base-TX RJ54
LED Indicators	PWR;LINE/ACT;PoE

Electrical and Mechanical

Input Power	100~240VAC, 50~60Hz
Consumption (without PoE)	40W
PoE Standard	IEEE 802.3af/at, PSE
PoE Power	Single port Maximum 30W
PoE Line Sequence	1/2(+), 3/6(-) end-end bridging method
Total PoE Output	Max. 360W
Max. Power Consumption	400W
LED Indicators	
Power	Power Status
Ethernet (Per Port)	Link/Activity
PoE Status	Indication of PoE Power applying
Protection	Overload Current Protection, Reverse Polarity Protection
Dimensions	440 x 300 x 45 mm
Weight	4 Kg
Casing	Aluminium, IP30
Mounting Options	Rack Mount

Software Features

Redundancy Protocols	Support STP/RSTP/MSTP/ERPSv2, Link Aggregation
Multicast Support	Support IGMP Snooping V1/V2/V3, support GMRP, GVMP,802.1Q
VLAN	Support IEEE 802.1Q 4K VLAN, support QINQ, Double VLAN
Time Management	SNTP
QOS	Flow-based redirection, Flow-based rate limiting, Flow-based packet filtering, 8*Output queues of each port 802.1p/DSCP priority mapping, Diff-Serv QoS, Priority Mark/Remark, Queue Scheduling Algorithm (SP, WRR, SP+WRR)
ACL	Port-based Issuing ACL, ACL based on port and VLAN, L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc
PoE Management	Total power limit of PoE power supply PoE output power allocation PoE output priority configuration PoE working status Scheduling of PoE operation
Diagnostic Maintenance	Support port mirroring, Syslog, Ping
Industrial Protocol	Modbus TCP(ASCII and RTU, Server and Client)
Management Function	Support CLI, WEB, SNMPv1/v2/v3, Telnet server for management, EEE, LLDP, DHCP Server/Client(IPv4/IPv6), Cloud/MQTT
Alarm Management	Support 1 way relay alarm output, RMON, TRAP
Security	Broadcast Storm Protection, HTTPS/SSLv3, AAA & RADIUS, SSH2.0 Support DHCP Snooping, Option 82, 802.1X security access, Support user hierarchical management, ACL access control list, Support DDOS, port-based MAC filtering / binding, MAC black holes, IP source protection, Port isolation, ARP message speed limit
Advance Layer 2+ Features	IPv4/IPv6 Management Static Route

Environmental

Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Relative Humidity	5% to 90% non-condensing
MTBF	> 100,000 hrs

Regulatory Approvals

FCC Part 15 Subpart B	IEC 62321-7-2:2017
EN 55032:2015	IEC 62321-4:2013+A1:2017
EN 55035:2017	IEC 62321-5:2013
	IEC 62321-6:2015
	IEC 62321-8:2017

Ordering Information

Available Model	Description
HMS-HRM-F164SPp	L2+ Managed 16-port 10/100/1000Base-TX (PoE+) + 4-port 10/100/1000Base-TX or 100/1000Base-SFP Combo Ethernet Switch with AC Power Input

Optional Accessories (to be purchased separately)

SFP	(S)=SFP Option. Please select your SFP on our SFP Modules page for details.
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Package Checklist

• Managed Switch	x1
• DB9 female to RJ45 10-pin	x1
• AC Power Cable (Regional Power Plug)	x1
• Rack-Mount Kits	x2
• Quick Installation Guide	x1



Hepda Pte Ltd, 2024

Due to continuous improvement, all product specifications are subject to change without further notice.