

# Industrial Ethernet Switches

## RM3 24P-8S-4X-G



### RM3-24P-8S-4X-G Key Features

- 4 x 10Gbps Ports, 8 x 1Gbps SFP Ports, 24 x 10/100/1000TX Poe Ports
- 128Gbps backplane, wire speed packet forwarding 96Mpps
- Static and Dynamic Routing
- Auto MDI / MDI-X, Full Duplex: Flow control, Half Duplex & Back pressure
- Support for IEEE 802.1Q, VLANS, MAC VLANS, Private VLANS and VLAN VPN's
- Resilience at layer 2 with STP, RSTP, MSTP, ERPS (Ethernet Ring Protection Switching)
- 24 Power Over Ethernet / Power Over Ethernet Plus ports
- Management via Web-based GUI and CLI Management as well as SNMP
- Support for 10Gbps link aggregation.
- Support for port-based, user IP Plus MAC Address authentication
- Support for CPU protection strategy, the CPU packets are sent to traffic classification and flow limit to prevent illegal attacks on the CPU and using resources
- Support for Storm -Control, unicast, broadcast, unknown unicast message storm suppression
- Restore to factory defaults via reset button
- Support for ring detection, and innovative network diagnostic function
- Low Carbon environmental energy consumption using IEEE 802.3az, reducing power according to the cable length
- IP40 Housing and EMC Circuit design supporting wide temperatures and wide voltage ranges dual redundant backup power supply and fan-less operation

FACT SHEET

1

# Industrial Ethernet Switches

## RM3 24P-8S-4X-G



### Hardware Features

Fixed Ports	24x10/100/1000 PoE Ports, 8 x SFP Combo Ports, 4 x 10Gbps SFP, 1 Console port
Standards and protocols	IPV4/IPv6, IEEE802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.3az, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1q. IEEE 802.1x, IEEE 802.1p
Performance	Backplane 128Gbps, Packet Forwarding rate 96 Mpps
Processor	ARM Cortex™ A9
Flash memory	8MB
Memory Capacity	256M
MAC Address	12K
Buffer Queue	64MB
Remote Upgrades	Support for upgrades through the web interface
Dimensions	444mm x 360mm x 44mm Weight. 2.86KG
Power Supply	AC110-240vac DC 5vdc to 48vdc
Power Usage	PoE (af) ≥ 360watts, PoE (at) ≥ 500 Watts
LEDS	Power, System, PoE, Link / Activity
Environmental	Operating -40°C ~ +75°C, Storage -45°C ~ +85°C, 0- 90% Non-Condensing

### Software Features

Port Management	Enable / disable each port Speed, duplex, MTU Configurations Flow Control Port Information View
Port Mirroring	Port Access direction, VLAN Mirroring. (NB VLAN Mirroring only supported in CLI)
Port Data Rate Limiting	Speed Limiting via chipset
Port Isolation	Supported
Storm Suppression	Storm suppression for unknown unicast, multicast, broadcast storm suppression
Link Aggregation	Support for static manual link aggregation, and dynamic LACP Aggregation Access, Trunk, Hybrid
VLAN Operation	VLAN assigned via Port, Protocol or MAC Address Support for GVRP dynamic VLAN registration Voice VLANs
MAC Addressing Support	Static, Add, delete, Mac Address learning limit, Dynamic age time settings
Spanning Tree	STP (802.1d), RSTP (802.1w), MSTP (802.1s) and ERPS via private agreement
IGMP Snooping	Support for Static add, delete Support for v1 / v2/3 dynamic multicast listening

FACT SHEET

# Industrial Ethernet Switches

## RM3 24P-8S-4X-G



FACT SHEET

### Layer 3 Software and Routing

Interface Configuration	Supports SVI
ARP	Support for Static ARP, Support to set ARP Aging time
VRRP	Support for VRRP Router backup
ND	Supports IPv6_ND Configuration
Routing	Static Routing, RIP (V1/V2), OSPF (V2), BGP, Supports RIP/OSPF/BGP route authentication, Supports RIP/OSPF/BGP route import

### Additional Features

ACL	Based on source MAC, destination MAC, protocols type, Source IP, destination IP, L4 Port Number 802.1p (COS ) Classification, Source and Destination IP, Port No
QoS	DSCP Classification, Source IP Address, Destination IP Address, Layer 4 Port Number
LLDP	Link Layer Discovery Protocol
User Settings	Add / Delete Users
System Log	User Login, Operation, Status and event log DOS defence
Anti-Attack	Supports CPU Protection, limits the rate of packets to the CPU ARP Binding (IP, MAC, Port Bind)
Network Diagnostics	Ping, telnet Trace Route

### Management

System Management	Switch reset, save configuration, restore configuration, upgrade, time setting
CLI	Support for serial Command Line Management
Telnet	Support for Remote Telnet Management
Web Interface	Layer 2 interface
SNMP	SNMPv1 / V2c / V3

### Access

DHCP Snooping, DHCP Server, DHCP Relay

### Certification

	RoHS, CE, FCC
European Emissions Std	EN55022 / EN650555-2, EN50082-1 EN 55022 (1988) / CISPR-22 (1985), class A EN60555-2 (1995) class A, EN60555-3 IEC1000-4-2, 4K V CD, 8KV AD, IEC 1000-4-3 (1995), 3V/m
EMC	IEC1000-4-4 (1995), 1KV – (Power Line), 0.5Kv – (signal Line) FCC Sub Part J of Part 155 FCC Rules

Ordering Information	
Feature	Description
RM3-24P-8S-4X-G	Industrial layer 3 rackmount switch, 4 x 10Gbps SFP, 8 x 1Gbps SFP, 24 x 10/100/1000Tx Poe / PoE+ Ports.