

RhinoSwitch[®] RSM-1100 Managed Switches

The RhinoSwitch[®] RSM-1100 Managed Switches are industrial hardened products. They offer eight Fast Ethernet RJ45 ports of which four can be PoE ports and 3 Gigabit optical fiber or copper ports



- Models that have 8 10/100 RJ45 Ports with PoE/PoE+ options and three Gigabit SFP ports or fixed Gigabit fiber in a compact package
- Robust, user-friendly Management Software
- Ability to work in extreme operating environment with temperatures ranging from -40° to +85°C
- Robust access via HTTPS/SSH/SSL and authentication using multi-level passwords, TACACS+/RADIUS
- High and low AC/DC power options
- DIN-Rail and panel mounting options

The features of the Management Software in RhinoSwitch® RSM-1100 Managed Switches is:

- Robust GUI and CLI-based Management Software
- RSTP and MSTP for rapid recovery
- VLAN (802.1Q) with Double Tagging and GVRP
- IGMP Snooping and GMRP multicast filtering
- Quality of Service (802.1p) and TOS/DiffServ
- LLDP for automated topology discovery
- LACP 802.3ad
- Port Rate Limiting and Broadcast Storm Limiting

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- Port Mirroring for Troubleshooting
- SNMP (Simple Network Management Protocol)
- SNTP (Simple Network Time Protocol)
- Remote Monitoring (RMON)
- DHCP Client, Server, and Relay
- Port Trunking for optimal bandwidth utilization
- Port Manager for Speed/Duplex/auto negotiation
- Event Monitoring with automatic email warnings

The features of Cyber Security in RhinoSwitch® RSM-1100 Managed Switches is:

- SSH/SSL Encryption
- Radius-based Access Management and Authentication
- TACACS+ based User Management
- Multiple levels of Passwords/User Access
- Port Security with MAC based Access Control
- 802.1X Port Based Network Access

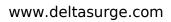
Product Specifications:-

Туре	RSM-1100
General	Operation: Store and forward wire speed switching, non-blocking
	Modes: Full or half duplex operation with flow control supported on all ports
	Switching bandwidth: 7.6Gbps
	Latency (100M typical): 7 μs plus frame time
	Packet Buffer: 2Mb
	Ethernet isolation: 1500 Vrms 1 minute
	Console port: RJ45
	8K MAC addresses
RJ45 Copper Ports	RJ45 ports: Eight RSM-1100 RJ45 ports that are fully IEEE 802.3 compliant (Optional: Four RJ45
	PoE ports (802.3af))
	RJ45 speed and duplex: Configurable or 10/100 auto-detecting for speed & duplex (full or half)

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	RJ45 MDI/MDIX: Auto-MDI/MDIX-Crossover automatically support either straight or crossed cables
Gigabit 1000 Base-X	Three SFP ports can be configured with Gigabit fiber optic or copper transceivers
SFP Ports	Optional: 1000 Mb fixed fiber ports may be selected rather than Gigabit SFP slots
Power and Alarm Output	AC: Input: 100-125vac at 60 Hz, 215-240vac at 50 Hz
	DC Power input: Dual redundant power inputs for single power supplies
	DC: Low Input voltage range (12V) DC 9-15VDC (24/28V,48/55V) DC: 18-75VDC
	DC: High Input voltage range (110, 125, 150): 90-170VDC
	Power consumption: Typical w/ all standard ports linked/active
	RSM-1100: 15 watts
	Industrial surge and spike protection: 15 kW peak, 5 kW (10 times for 10 μs)
	Alarm Output (RJ45): 2 alarms; form C contact relay and normally closed
Environmental	Operating temperature for all models: -40°C to +85°C
	Storage temperature for all models: -45°C to +90°C
	Humidity: 5 to 95% RH (non-condensing)
	Altitude: 19,000 ft. (6,000m)
	MTBF: > 219,000 hours
	Optional Conformal Coating available on request
Standards and Compliance	Safety: UL/CSA/EN/IEC 60950-1, 2 nd Edition CB report
	Emissions: EN/ETSI 300-386; FCC Part 15
	EN55032,24; AN/NZ CISPR22, VCCI, EN61000-6-4 Class A CFR 47-FCC part 15, ICES 003,
	Class A
	Hazardous Locations: UL/cUL Class 1 Div 2; ATEX Zone 2
	■ IEC 61850 EMC & Environmental Operating Conditions Class C for Power Utility substations
	(KEMA/DNV)
	IEEE 1613 Class 2 Environmental Standard for Power Utility Substations
	■ NEMA TS-2 & TEES for DC- and PoE-powered traffic control equipment
	Military: MIL-STD-810G
	Marine: DNV
	Mining: Directive 2006/21/EC
	Telecom: NEBS, GR63 & GR1089, L3; ETSI 300 386, EN 301 489,
	Railways: EN50155 and EN50121-4 Compliant
	Vibration: IEC 60068-2-6
	Shock: IEC 60068-2-27
	Freefall: IEC 60068-2-32
	RoHS (Pb free) and WEEE compliant
	Immunity: EN55024
	EN61000-4-2 (ESD) Level 4; EN61000-4-3 (RFI) Level 4 EN61000-4-4 (EFT) Level 4;





	EN61000-4-5 (Surge) Level 4
	EN61000-4-6 (C. Susceptibility) Level 3
	EN61000-4-8 (PF Magnetic Field) Level 4
	EN61000-4-10 (Damp Osc.) Level 4
	EN61000-4-11 (VDI) Class 3
	EN61000-4-12 (Osc. Wave Im.) Level 3
	EN61000-4-16 (I.C. CMD) Level 3
	EN61000-4-29 VDSI on DC Input
	EN61000-6-2; EN61000-6-5 DT&T-NL, Immunity PS&SS
Mechanical	Chassis: DIN rail-mounted; panel or rack-mounted
	Material: Metal with powder coating
	Dimensions:
	Width: 7.125 in (18.1 cm)
	Depth: 5.5 in (14 cm)
	Height: 1.75 in (4.4 cm)
	Weight: 1.5 lb. (0.7 kg)
IP Rating	IP30
Warranty	5 years
Made in	USA