



Remote Edge Manager

REM Series

Out-of-Band Management For Edge Networks

The REM is a compact and comprehensive Out-of-Band Rescue™ solution for WAN edge and branch offices.

Designed for small racks and enclosures, the REM delivers all the benefits of a next-gen console server and intelligent PDU with backup LAN/WAN connectivity over 4G LTE cellular and dual gigabit ethernet.

When IT infrastructure and services become unresponsive, the REM allows you to quickly access, troubleshoot and restore connections without a truck roll. Better yet, with WTI OOB automation features you can proactively monitor and remediate issues for always-available resilient networks.

DevOps Automation:

- RESTful Web Services API
- Modules Available on Ansible Galaxy
- SYSLOG & Streaming Telemetry Support
- Slack & Splunk Support
- Zero Touch Provisioning (ZTP) Support

Unit Management:

- Compatible with WTI Centralized Management
- CLI & HTML5 Web-Based GUI
- SNMP & Full MIB Support
- FTP/TFTP/SFTP/SCP
- DHCP/DNS/DDNS
- NTP for True Server Sync
- Multiple Concurrent SSHv2 Sessions

Security & Authentication:

- HTTPS, SSHv2, SNMPv3
- Transport Layer Security (TLS) v1.3
- IPSec [Server/Client] & OpenVPN
- IPtables / Static Routes
- Supports Duo, Okta and RSA® Two-Factor Authentication
- SAN Certificate Support
- AAA: LDAP/Active Directory/Kerberos/RADIUS/TACACS+
- Embedded Validated FIPS 140-2 Cryptographic Module
- Port-Specific Password Protection
- Invalid Access Lockout & Alarm

In-Band/Out-of-Band Connectivity:

- Primary Ethernet: 10/100/1000
- **Optional** Secondary Ethernet with Fallback Capabilities: 10/100/1000
- **Optional** 4G LTE Cellular with Wake-Up on Failure
- IP Passthrough for Cellular WAN Failover
- Local Access (USB Mini Set-up Port)
- Supports IPv4 and IPv6

Console Port Management:

- [4] RS232 RJ45 Serial Ports
- [2] USB 2.0 Type A Ports
- Ctrl+Break Command Block Options
- Reverse/Outbound SSH

Remote Power Management:

- [4] Switchable NEMA 5-15R or IEC C13 Outlets
- Single 15 Amp Power Input
- On/Off/Reboot/Default/Load Shed Switching
- Outlet Sequencing & Power Up Delays
- Scheduled Outlet Switching/Reboot
- Ping Watchdog with Auto Reboot
- 120 VAC and 240 VAC Models

Event Monitoring, Logging & Notification:

- Temperature, Command & Event Logging
- Time Stamp & Non-Connect Port Buffering
- Power Cycle & Lost Communication Alarms
- Ping-No-Answer Alarm (Failed Ping Command)
- Buffer Monitoring & Alarms
- Over-Temperature Alarms

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Model Number	Outlets	Console Ports	AC Voltage 50/60 Hz	Power Dist. (80% Derated)	Input Feeds	Power Cord (Detachable)	Primary/Secondary Ethernet	Cellular
REM-xRx-1-xx	(4) NEMA 5-15R	4 RJ45 / 2 USB	100/120V	1.2/1.4 kW	(1) 15 Amp	C13 to NEMA 5-15P, 8'	10/100/1000	4G LTE
REM-xRx-2-xx	(4) IEC 60320 C13	4 RJ45 / 2 USB	100/240V	1.2/2.8 kW	(1) 15 Amp	(Sold Separately)	10/100/1000	4G LTE

Model Number Key		Sample Model Number: REM 4R4 1 N E			
Series					
REM	Remote Edge Manager				
Ports/Outlets					
4	Console Ports	4	Power Outlets		
Outlet Type					
1	NEMA 5-15R	2	IEC 60320 C13		
Cellular Connectivity					
N	North America (AT&T, Verizon) Frequencies (MHz) 4G: B2(1900), B4(AWS1700), B5(850), B12(700a), B13(700c) North America Cellular Option Requires Additional Part Number: W4G-NAM-REM				
W	World Wide (<i>various carriers</i>) Frequencies (MHz) 4G: B1(2100), B3(1800), B7(2600), B8(900), B20(800), B28A(700) World Wide Cellular Option Requires Additional Part Number: W4G-EUA-REM				
Ethernet Connectivity					
E	Dual 10/100/1000	blank	Single 10/100/1000		
Dual Ethernet Connectivity Option Requires Additional Part Number: NRR-E-REM					



19" Rack Adapter Brackets (Optional)



Wall Mount Brackets (Optional)



240V IEC Outlet Option

Cellular Connectivity:	4G LTE North America (Verizon, AT&T) Performance: Category 4; 150 Mbps peak downlink/50 Mbps peak uplink with 3G fallback World Wide (various carriers) Performance: Category 4; 150 Mbps peak downlink/50 Mbps peak uplink with 3G/2G fallback
Ethernet Connectivity:	10/100/1000 BaseT, RJ45
Operating Temperature:	32°F - 140°F (0°C - 60°C)
Humidity:	10 - 90% RH
Dimensions:	Height: 1.74" (4.4 cm), 1 Rack U Width: 9" (22.8 cm) Depth: 7.3" (18.5 cm)
Shipping Weight:	10 Lbs (4.5 Kgs)
Mounting Brackets:	Optional Wall Mount Brackets(Part #: NRR-WALL-REM) Optional 19" Rack Brackets(Part #: NRR-19RACK-REM)
Approvals:	UL, cUL, CE, FCC Class A



- ✓ 5 Year Warranty
- ✓ Stocked for Same Day Shipments
- ✓ In-House Design & Manufacturing
- ✓ Made In USA

OUT-OF-BAND RESCUE™

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