

Remote RMX-3200



General Description

The Remote RMX-3200 is a monitoring and control device that provides IP management to sites and equipment. The Remote RMX-3200 enables site alarm monitoring, protocol conversion, and equipment connectivity and acts as an intelligent extension of your Operations Support Systems (OSS). It is designed to enhance your network management strategy, reduce operational costs, and improve operational efficiency with reduced truck rolls.

The RMX-3200, a highly integrated site management solution, includes eight serial, eight Ethernet, and 80 I/O ports. It also includes modular WAN communication and expansion options, providing site management flexibility and growth. It supports up to four RME-1000 expansion shelves and 12 expansion modules, providing port capacity for any situation. The Remote RMB-1B, RMB-2, and/or RMB-3 connect to the RMX-3200 via Ethernet to provide additional alarm, sensor, and control interfaces for site management. Two Power over Ethernet (PoE) ports are available to power the RMB-1B and RMB-2.

An integral part of the Westell site management solution, the RMX-3200 resides at your network's locations and connects to each element via a wide variety of interface options. The RMX-3200 performs protocol mediation and interface conversion, collects alarms and performance data, and supports bi-directional management control with the Westell Optima Management System® via Ethernet or wireless communication options. Together, the Remote RMX-3200 and Optima provide detailed monitoring, remote control, and management for virtually all site devices.



Remote RMX-3200



Remote RME-1000 with RME-B64, RME-S8, and RME-E8 modules installed



Remote RMB-2



Remote RMB-1B



Remote RMB-3

The Remote RMX-3200 provides IP network connectivity for site management and alarm monitoring.

The RMX-3200 highlights include:

- Capacity flexibility and scalability for any size site
- Modular WAN and I/O expansion options
- PoE for site security and other applications
- Easy-to-use GUI with Optima
- Advanced equipment management and protocol conversion
- Custom application extension support
- Flexible IP network connectivity including wireless networking options
- Alarm aggregation for reduced network management complexity

Remote RMX-3200



Ordering information

| | |
|---|--|
| Remote RMX-3200 | Remote RMX-3200 system |
| Remote RMX-3240* | RMX-3200 with GigE module |
| Remote RMX-3244* | RMX-3200 with 4G LTE international WAN |
| Remote RMX-3247* | RMX-3200 with 4G LTE Americas/EMEA |
| Remote RMB-1B | RMB-1B alarm collector |
| Remote RMB-2 | RMB-2 rack mounted alarm collector |
| Remote RMB-3 | RMB-3 rack mounted alarm collector |
| * Insert modules available separately: RMX-WGE-40, RMX-WWAN-44, and RMX-WWAN-47 | |

Expansion shelves and modules** ordering information

| | |
|-------------------------------------|--------------------------------|
| Remote RME-1000 | 3 slot expansion shelf |
| Remote RME-S8 | 8 serial async port module |
| Remote RME-B64 | 80 I/O port module (see table) |
| Remote RME-E8 | 8 Ethernet port module |
| ** In addition to above WAN modules | |

RMX-3200 supported protocols

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|---|
| DHCP (server, client, relay) / DNS / NTPv4 |
| FTP / HTTP / HTTPS / SFTP / SSHv2 / Telnet |
| Internet Protocol version 4 (IPv4) and version 6 (IPv6) / NAT64 |
| IPSec / OpenVPN |
| Serial protocols RS232, RS422, RS485 / TBOS |
| SNMP (v1, v2c, v3) / TL1 / Web API |
| Spanning Tree (IEEE 802.1d) |
| TACACS+ AAA / RADIUS |
| Virtual LAN - IEEE 802.1q |

RMX-3200 management and management access

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| Command Line Interface (CLI) |
| Web-based user interface administration |
| Console port local access |
| Wizard configuration support |
| Optima Management System Support |

Remote RMX-3200 physical specifications

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|---------------------|---|
| Depth: | 12 in. (30.5 cm) |
| Height: | 1.75 in. (4.45 cm) |
| Width: | 16.86 in. (42.8 cm) |
| Weight: | 8.5 lbs. (3.86 kg) |
| Rack mounting: | 19 or 23 in. racks, (1-RU) |
| Power requirements: | Dual input (A/B feed) +/- 20-60 VDC; 15W (typical), 50W (max) |

Environmental / Reliability / Maintenance

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| Extended temperature range of -40°C to 65°C (-40°F to 149°F) |
| Humidity – 0% to 95% (non-condensing) |
| MTBF - 200,000 hours @ 25°C |
| MTTR - 30 minutes |

Remote RME-1000 specifications

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|--|-------------------------------------|
| Up to four expansion systems are managed by a host Remote | |
| Connection is via Ethernet (daisy-chained to additional units) | |
| No additional IP addressing required | |
| Depth, height, width, and mounting are same as RMX-3200 | |
| Weight: | 10 lbs. (4.54 kg) |
| Power requirements: | Dual input (A/B feed) +/- 20-60 VDC |

Remote RMB-1B specifications

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|---------------------|--|
| Depth: | 1.25 in. (3.2 cm) |
| Height: | 4.8 in. (12.2 cm) |
| Width: | 11 in. (27.9 cm) |
| Weight: | 1.85 lbs. (0.8 kg) |
| Mounting: | Wall mount hardware included. 19 or 23 inch rack options |
| Power requirements: | 802.3af Power over Ethernet (PoE) Class 4 |

Remote RMB-2 physical specifications

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|---------------------|--|
| Depth: | 1.75 in. (4.45 cm) |
| Height: | 3.5 in (8.89 cm) |
| Width: | 17.5 in. (44.45 cm) |
| Weight: | 4 lbs (1.8 kg) |
| Mounting: | Rack mount hardware included. Supports 19, 21, or 23 inch EIA and ETSI racks |
| Power requirements: | 802.3af Power over Ethernet (PoE) Class 4 |

Remote RMB-3 specifications

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|---------------------|--|
| Depth: | 3.9 in. (9.75 cm)/ 5 in. (12.7 cm) with modules |
| Height: | 1.67 in (4.175 cm) |
| Width: | 16.952 in. (42.38 cm) |
| Weight: | 2.3 lbs (1.04 kg)/3.3 lbs. (1.5 kg) with modules |
| Mounting: | 19 or 23 inch rack options |
| Power requirements: | +/- 20-60 VDC ~0.35A @ 24V; ~0.175A @ 48V 8.3W max while providing 100ma @ 24VDC and 50ma @ 5VDC |

Compliance

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| CB Scheme, CE Mark, EN 60950, FCC, GR-3108, NEBS level III, NRTL 60950-1 |
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Remote RMX-3200



Remote suite of products overview

| Product | Async Ports | Console Ports | Ethernet Ports | Discrete Ports | Control Outputs | 0-10 VDC Inputs | 4-20 mA Inputs | Input Power |
|-----------------------------|----------------|---------------|----------------|-----------------|-----------------|-----------------------|-----------------------|---------------|
| Remote RMX-3200 | 8 ^A | 1 | 8 (2 PoE) | 64 | 4 | Up to 12 ^B | Up to 12 ^B | +/- 20-60 VDC |
| Remote RME-B64 ^C | -- | -- | -- | 64 | 4 | 12 | Up to 12 ^B | +/- 20-60 VDC |
| Remote RME-S8 ^C | 8 ^A | -- | -- | -- | -- | -- | -- | +/- 20-60 VDC |
| Remote RME-E8 ^C | -- | -- | 8 | -- | -- | -- | -- | +/- 20-60 VDC |
| Remote RMB-1B ^{DG} | -- | -- | 1 ^E | 64 | 4 | 4 | 4 | PoE Class 4 |
| Remote RMB-2 ^{DG} | -- | -- | 1 ^E | 64 ^F | 4 | 4 | 4 | PoE Class 4 |
| Remote RMB-3 ^{DG} | -- | -- | 2 ^H | 24 | 2 | 1 | 1 | +/- 20-60 VDC |

^A All 8 async ports operate in RS232, RS422, or RS485 mode ^B RMX-3200 has 12 analog inputs configurable for voltage or current ^C Requires a Remote RMX-3200 with an available expansion slot ^D Requires a Remote RMX-3200 ^E Connection to Remote RMX-3200 only ^F Supports wet or dry contact inputs and input voltages of 4-72 VDC with positive or negative grounding ^G Supports multiple sbTemp or sbTempHumidity sensors ^H Includes connection to Remote RMX-3200

