Remote RMX-3200

General Description

The Remote RMX-3200 is a monitoring and control device that provides IP management to remote 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-1, 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-1 and RMB-2.

An integral part of the site management solution from Kentrox, the RMX-3200 resides at your network’s remote 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 Kentrox® Optima Management System® via Ethernet, T1/E1, or wireless communication options. Together, the Remote RMX-3200 and Optima provide detailed monitoring, remote control, and management for virtually all remote site devices.
Remote RMX-3200

Ordering information

- Remote RMX-3200 - Remote RMX-3200 system
- Remote RMX-3210 - RMX-3200 with dual T1 module
- Remote RMX-3211 - RMX-3200 with T1 DAC module
- Remote RMX-3212 - RMX-3200 with dual E1 module
- Remote RMX-3213 - RMX-3200 with E1 DAC module
- Remote RMX-3240 - RMX-3200 with GigE module
- Remote RMB-1 - RMB-1 alarm collector
- Remote RMB-2 - RMB-2 rack mounted alarm collector
- Remote RMB-3 - RMB-3 rack mounted alarm collector
- Remote RMX-3243 - RMX-3200 with 4G LTE ATT WAN
- Remote RMX-3244 - RMX-3200 with 4G LTE for international WAN
- Remote RMX-3245 - RMX-3200 with 4G LTE Sprint WAN
- Remote RMX-3246 - RMX-3200 with 4G LTE Verizon WAN
- Remote RMX-3247 - RMX-3200 with 4G LTE for Americas/EMEA

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
- Remote RMX-WGE-40 - GigE port module
- Remote RMX-WTE-10 - Dual T1 module
- Remote RMX-WTE-11 - T1 DAC module
- Remote RMX-WTE-12 - Dual E1 module
- Remote RMX-WTE-13 - E1 DAC module
- Remote RMX-WWAN-21 - EVDO wireless WAN module
- Remote RMX-WWAN-31 - HSPA/GPRS wireless WAN module
- Remote RMX-3243 - RMX-3200 with LTE AT&T WAN
- Remote RMX-3245 - RMX-3200 with 4G Sprint WAN
- Remote RMX-3246 - RMX-3200 with 4G LTE Verizon WAN

RMX-3200 supported protocols

- PPP/BCP bridging (RFC-1638)
- PPP/IPCP static routing (RFC-1332)
- Internet Protocol version 6 (IPv6) (RFC 2460)
- HDLC static routing
- Spanning Tree (IEEE 802.1d)
- NTP client (RFC 1305)
- TACACS+ AAA
- Virtual LAN - IEEE 802.1q
- Serial protocols: RS232, RS422, RS485

RMX-3200 management and management access

- Command Line Interface (CLI)
- Web-based user interface administration
- Console port local access
- Wizard configuration support
- Telnet / SSHv2 / FTP / SFTP / SNMP MIB
- SMS / Optima Management System Support

RMX-3200 intelligent applications support

- Optional intelligent generator monitoring
- Native TBOS support
- Intelligent battery management
- TL1 or SNMP status reporting

Remote RMX-3200 physical specifications

- 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)

Reliability/maintenance

- MTBF - 200,000 hours @ 25°C
- MTTR - 30 minutes

Remote RME-1000 functional specifications

- 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

Remote RME-1000 physical specifications

- 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-1 physical specifications

- 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. Available in 19 or 23 inch rack mounting options
- Power requirements: 802.3af Power over Ethernet (PoE) Class 4

Remote RMB-2 physical specifications

- 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 physical specifications

- 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: 8.3W max while providing 100ma @ 24VDC and 50ma @ 5VDC
Remote RMX-3200

Environmental
Extended temperature range of -40°C to 65°C (-40°F to 149°F)
Humidity = 0% to 95% (non-condensing)

Compliance
- FCC compliant
- EN 60950 compliant
- CE Mark compliant
- NEBS Level III compliant
- GR-3108 compliant

Remote suite of products overview

<table>
<thead>
<tr>
<th>Product</th>
<th>Async Ports</th>
<th>Console Ports</th>
<th>Ethernet Ports</th>
<th>Discrete Ports</th>
<th>Control Outputs</th>
<th>Analog Inputs</th>
<th>Voltage</th>
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<td>8 (2 PoE)</td>
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<td>4</td>
<td>12</td>
<td>+/- 20-60 VDC</td>
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* Requires a Remote RMX-3200 with an available expansion slot
** Requires a Remote RMX-3200
*** Connection to Remote RMX-3200 only
**** Supports wet or dry contact inputs and input voltages of 4-72 VDC with positive or negative grounding

Intelligent Site Management Solution

Proactively manage all critical remote site elements