Remote RMX-36xx/38xx Series

General Description

The Remote RMX is Westell's next-generation site management platform that builds on and extends the IoT capabilities of Westell's Intelligent Site Management solutions for monitoring.

The Remote RMX enables site alarm monitoring, intelligent protocol conversion, wireless device aggregation, and equipment connectivity, acting as a smart 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-3600, a highly integrated site management solution, includes four serial, nine Ethernet, and 18 I/O ports and one SFP slot, as well as extensibility via Westell's SiteBus™ sensor network and RMB and RME expansion units. The RMX-3800 adds an additional 10/100 Ethernet port with PoE output to power an 802.3af-compliant PoE powered device, such as a Westell's RMB alarm collector, an IP camera, or other compatible device. In total, the RMX can support up to 12 RME/RMB expansion modules, providing port capacity for any situation.

As with all products in the Westell Remote product line, the RMX performs protocol mediation and interface conversion, collects alarms and performance data, and supports bi-directional management control with Westell's Optima Management System® via Ethernet, Fiber, or wireless communication options. Together, the Remote RMX and Optima provide detailed monitoring, remote control, and management for virtually all remote site devices.

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

Remote RMX-3600

Remote RMX-3848

Product Highlights

- Capacity flexibility and scalability for any size site
- Integrated fiber WAN and 4G LTE connectivity options
- PoE port for expansion, site security, and other applications (RMX-38xx only)
- SiteBus for low-cost sensor support and relay output expansion
- Next-generation connectivity options for wireless sensors and systems
- Easy-to-use GUI with Optima
- Advanced equipment management and protocol conversion
- Custom application extension support
- Flexible IP network connectivity including wireless networking options

RMX supported protocols

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

Remote RMX-36xx/38xx Series

Ordering information

RMX-3600	Base RMX-3600 system
RMX-3648	RMX-3600 + global 4G LTE
RMX-3800	Base RMX-3800 system
RMX-3848	RMX-3800 + global 4G LTE

RMX management and management access

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

Environmental / Reliability / Maintenance / Compliance

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
CE Mark, EN 62368, FCC

RMX physical specifications

Depth (Rev A):	10 in (25.4 cm)
Depth (Rev B):	9.5 in. (24.13 cm)
Height:	1.75 in. (4.45 cm)
Width:	17 in. (43.18 cm)
Weight:	5.65 lbs
Rack mounting:	19 or 23 in. racks (1RU)
Power requirements:	Dual input (A/B feed): 19W maximum (not delivering PoE) 55W max with full PoE budget (RMX-38xx only) Input voltage range: +/- 20 to 60 VDC Voltage applications: +24VDC and -48VDC
Analog power outputs	100 mA @ 24VDC (200 mA @ 12VDC) maximum cumulative current for both 12/24 VDC outputs 50 mA @ 5VDC maximum cumulative current for both 5VDC outputs

Remote suite of products overview

Product	SFP 10/100/1000	Ethernet Ports	Async Ports	Discrete Ports[A]	Control Outputs[B]	Analog Inputs[C, D]		1-wire SiteBus	WiFi	Wireless Sensors	Input Power
						0-10 VDC	4-20 mA				
RMX-4000	2	2 10/100/1000 12 10/100 (4 PoE)[E]	4[F]	32	0	2	2	2	Yes	--	+/- 20-60 VDC
RMX-4100	2	2 10/100/1000 12 10/100 (4 PoE)[E]	4[F]	32	0	2	2	2	Yes	Yes	+/- 20-60 VDC
RMX-4200	2	2 10/100/1000 12 10/100 (4 PoE)[E]	4[F]	32	0	2	2	2	--	--	+/- 20-60 VDC
RMX-4200S	2	2 10/100/1000 12 10/100 (4 PoE)[E]	8[F]	16	0	2	2	2	--	--	+/- 20-60 VDC
RMX-4300	2	2 10/100/1000 12 10/100 (4 PoE)[E]	4[F]	32	0	2	2	2	--	Yes	+/- 20-60 VDC
RMX-4300S	2	2 10/100/1000 12 10/100 (4 PoE)[E]	8[F]	16	0	2	2	2	--	Yes	+/- 20-60 VDC
RMX-3800	1	1 10/100/1000 9 10/100 (1 PoE)[G]	4[H]	16	0	2	2	2	--	--	+/- 20-60 VDC
RMX-3600	1	1 10/100/1000 8 10/100	4[H]	16	0	2	2	2	--	--	+/- 20-60 VDC
RMC-760	--	2 10/100	2[F]	12	1	1	1	1	--	--	+/- 20-60 VDC
DMX-1600	--	1 10/100/1000 2 10/100 (1 PoE)[I]	3[F]	8	0	0	0	1	--	--	+/- 20-60 VDC or PoE

A. Additional discrete ports can be added with use of SBInput8 input modules. B. Control outputs can be added with the use of SBRelay2 relay modules. C. All analog inputs are configurable for voltage or current. D. Additional analog inputs can be added with the use of SBAnalog4 input modules. E. Can power up to four 802.3af-compliant devices or up to two 802.3at-compliant (PoE+) devices. Grouped PoE ports 13/15 and 14/16 support maximum PoE budget of 30W each. See *RMX-4000 Installation Guide* for details. F. All async ports operate in RS232 or RS485 mode. G. Can power one 802.3af (PoE) or 802.3at-compliant (PoE+) device. H. 2 async ports operate in RS232 and 2 ports operate in RS232 or RS485 mode. I. Ethernet port 2 accepts PoE input. Ethernet port 3 provides 802.3at-compliant PoE+ output when powered by +/- 20-60 VDC.

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