

CSMI-QMTDC-163-1-EX

Digital QMT® Shade Motor for QMT3 Series, 3/4 Nm, infiNET EX® Wireless, International



- *Designed for use with Crestron® QMT®3 Series Architectural or QMT3 Series Décor shade hardware*
- *For roller shades 17.5 to 96 in. (445 to 2,439 mm), depending on fabric and shade height*
- *Digital Quiet Motor Technology™ provides silent operation and precise positioning*
- *Dependable, brushless motor design provides reliable, long-life operation*
- *Patented automatic torque calibration technology detects obstructions to prevent damage*
- *Programmable stop points afford customizable scene presets*
- *Real-time remote activity monitoring and status feedback*
- *Local push button interface for setup and testing*
- *Onboard multicolor diagnostic LED*
- *Quick and easy installation*
- *Fully integrated antenna— no external antenna or dongle required*
- *Control system integration using infiNET EX® wireless communications*
- *Powered using 24VDC low-voltage, Class 2 wiring*
- *Limited Lifetime Warranty*

NOTE: The CSMI-QMTDC-163-1-EX is only available as part of a Crestron® shade system and cannot be ordered on its own. To configure shades or order shading parts and accessories, please use the [Crestron Design Tool for Crestron Shading Solutions](#) or call 1-855-53-S-H-A-D-E (537-4233) for support.

Featuring Digital Quiet Motor Technology™, the [CSMI-QMTDC-163-1-EX](#) motor provides quiet, yet robust operation of Crestron® roller shade systems.¹ Fully integrated electronics eliminate the need for bulky add-on interface modules, allowing for a clean, streamlined installation. The CSMI-QMTDC-163-1-EX is capable of controlling shades that are 17.5 to 96 in. (445 to 2,439 mm) wide, depending on fabric, hardware configuration, and shade height.

The CSMI-QMTDC-163-1-EX integrates seamlessly with a Crestron control system, allowing it to be operated alone or as part of a group using keypads, wireless remotes, touch screens, and mobile devices.

Integrated Controls

Setup controls are included on the CSMI-QMTDC-163-1-EX to facilitate setup, testing, and adjustment of shade limits.

For a wired shade motor alternative with Cresnet® technology, see model [CSM-QMTDC-163-1-CN](#).

Digital Quiet Motor Technology

Quiet Motor Technology allows for nearly inaudible operation while providing precise control of shade movement. Digital QMT® shade motors also keep track of the shade's position which allows the shade to be programmatically adjusted to the user's desired position.

infiNET EX® Wireless Communication

infiNET EX wireless technology provides two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Each infiNET EX device acts as an expander by sending command signals to other infiNET EX devices in range (approximately 150 ft (46 m) indoors) to ensure reliability and stability.¹

The shade motor communicates with a Crestron control system via a [Crestron wireless gateway](#) (sold separately). Up to 100 infiNET EX devices may coexist on a single wireless network.

QMT®3 Series Architectural or Décor Mounting Hardware

Designed for use with Crestron® QMT®3 Series Architectural ([CSS-ARCH3](#)) or QMT3 Series Décor ([CSS-DECOR3](#)) mounting hardware. QMT3 series mounting hardware is a compact mounting system that allows a Crestron shade to be mounted on a wall, ceiling, or window jamb.

Simple Mounting

The CSMI-QMTDC-163-1-EX snaps into the mounting bracket. The Quick Release button makes installation and removal without any special tools quick and easy.

Power Supply

Power is supplied to the shade motor by a dedicated power supply ([CSAI-PWS40](#), sold separately) or a 10-motor power supply ([CSA-PWS10S-HUB-ENET](#), sold separately).

CSMI-QMTDC-163-1-EX

Digital QMT® Shade Motor for QMT3 Series, 3/4 Nm, infiNET EX® Wireless, International

Specifications

Motor	
Torque	3/4 Nm
Speed	10 - 30 RPM
Duty Cycle	8 minutes on / 40 minutes off at 3/4 Nm
Shade Width	17.5 to 96 in. (445 to 2,439 mm); Depending upon shade height and fabric selection
Protection Class	IEC 61140 Class III

Power Requirements

24VDC	42.5 W (1.8A @ 24VDC); Requires a CSAI-PWS40 or CSA-PWS10S-HUB-ENET power supply (sold separately)
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Wireless Communications

RF Transceiver	infiNET EX® 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15; IEEE 802.15.4 compliant
Range (Typical)	150 ft (46 m) indoor (250 ft (76 m) outdoor) to nearest mesh network device(s); Subject to site-specific conditions and individual device capabilities¹
Gateway	Requires a Crestron wireless gateway (sold separately)

Connector

24VDC	(1) 2-conductor attached lead with inline detachable terminal block; Connection is used to provide power only. This product does not allow for data communication via Cresnet.
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Controls and Indicators

UP, SET, DN	(3) Pushbuttons for setup and testing
Status	(1) Multicolor LED for motor status indication and diagnostics

Environmental

Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (noncondensing)

Dimensions

Diameter	Ø 1.63 in. (42 mm)
Length	13.25 in. (337 mm)

Weight

14.2 oz (402 g)

Compliance

CE, IC, FCC Part 15 Class B Digital Device
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Models

CSMI-QMTDC-163-1-EX Digital QMT® Shade Motor for QMT3 Series, 3/4 Nm, infiNET EX® Wireless, International

Available Accessories

For a list of available accessories, visit the [CSMI-QMTDC-163-1-EX](#) product page.

- Note:
- Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices do not provide expander functionality. Crestron also offers dedicated infiNET EX [Wireless Expanders](#) (sold separately), which may be deployed to fill gaps in coverage and extend the wireless range of the mesh network. Up to 100 infiNET EX devices are permitted per gateway, although best practices suggest a limit of approximately 50. Additional gateways may be deployed to support more devices, with a maximum of 16 gateways permitted on a complete system (RF conditions allowing).

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](#) or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to [www.crestron.com/warranty](#) for full details.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](#).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](#).

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