

CSMI-QMTDC-163-1-EX

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



- *Designed for use with Crestron® QMT®3 Series Architectural or QMT3 Series Décor System shade hardware*
- *For roller shades 17.5 to 96 in. (445 mm to 2,439 mm), depending on fabric and shade height*
- *Digital Quiet Motor Technology™ achieves nearly inaudible operation*
- *Long-life brushless motor design ensures ultimate reliability*
- *Patented automatic torque calibration technology detects obstructions to prevent damage*
- *Starts and stops are smooth and precise*
- *Programmable stop points afford customizable scene presets*
- *Real-time remote activity monitoring and status feedback*
- *Local pushbutton interface for setup and testing*
- *Onboard multicolor diagnostic LED*
- *Fully integrated electronics — no external interface module required*
- *infiNET EX® wireless communications*
- *Powered using 24 VDC 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 for Crestron® roller shades 7.5 to 96 in. (445 mm to 2,439 mm) depending on fabric and shade height. Fully integrated electronics eliminate the need for bulky add-on interface modules, allowing for a clean, streamlined installation.

The CSMI-QMTDC-163-1-EX can integrate seamlessly into 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. Setup controls are included on the CSMI-QMTDC-163-1-EX to facilitate setup, testing, and adjustment of shade limits by the installer.

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

Digital Quiet Motor Technology

The shade motor utilizes the quiet, precision-controlled Quiet Motor Technology to control the movement of the shade, keep track of the shade's position, and adjust the shade to the user's desired preset positions.

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 or 46 m indoors) to ensure reliability and stability.¹

The CSMI-QMTDC-163-1-EX communicates with a Crestron control system via an infiNET EX Wireless Gateway ([CENI-GWEXER](#) or [CENI-GWEXER-PWE](#), both sold separately). Up to 100 infiNET EX devices may coexist on a single wireless network.

Power Supply

Power is supplied to the CSMI-QMTDC-163-1-EX via a dedicated power supply ([CSAI-PWS40](#), sold separately) or a 10-motor power supply ([CSA-PWS10S-HUB-ENET](#), sold separately).

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Specifications

Motor

Torque	3/4 Nm
Motor Speed	10-30 rpm
Duty Cycle	8 minutes on / 40 minutes off at 3/4 Nm
Shade Widths Supported	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

24 VDC	42.5 W (1.8 A @ 24 VDC); Requires a CSAI-PWS40 or CSA-PWS10S-HUB-ENET power supply (all 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 capabilities ¹
Gateway	Requires an infiNET EX gateway (sold separately)

Connectors

24 VDC	(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	1 5/8 in. (42 mm)
Length	13 1/4 in. (337 mm)

Weight

14.2 oz (402 g)

Compliance

CE, IC, FCC Part 15 Class B Digital Device

Models

CSMI-QMTDC-163-1-EX

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Available Accessories

CENI-GWEXER

infiNET EX® Network and ER Wireless Gateway – International Version

CENI-GWEXER-PWE

infiNET EX® Network and ER Wireless Gateway with PoE Injector – International Version

CSA-PWS10S-HUB-ENET

10-Motor Power Supply with Ethernet to Cresnet® Bridge and Cresnet Hub

CSAI-PWS40

Power Pack for CSM-QMTDC Series Motors, 24 VDC, 40 W

Notes:

- 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 expanders (models CLW-EXPEX or GLA-EXPEX, 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).

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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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