

# CSM-QMTDC-250-4-EX

Digital QMT® Shade Motor for QMT5 Series, 4 Nm, infiNET EX® Communications



- *Designed for use with Crestron® QMT®5 Series Architectural or QMT5 Series Décor System shade hardware*
- *For roller shades 18 to 133 in. (458 to 3,379 mm) wide, 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 CSM-QMTDC-250-4-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 CSM-QMTDC-250-4-EX motor provides quiet yet robust operation for Crestron® roller shades 18 to 133 in. (458 to 3,379 mm) wide, 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 CSM-QMTDC-250-4-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 CSM-QMTDC-250-4-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-250-4-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 (46 m) indoors) to ensure reliability and stability.<sup>1</sup>

The Crestron® Shading Solutions communicates with a Crestron control system via an infiNET EX Wireless Gateway ([CEN-GWEXER](#) or [CEN-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 CSM-QMTDC-250-4-EX via a dedicated power supply ([CSA-PWS40](#), sold separately) or a 10-motor power supply ([CSA-PWS10S-HUB-ENET](#), sold separately).

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## Specifications

### Motor

<b>Torque</b>	4 Nm
<b>Motor Speed</b>	10-30 RPM
<b>Duty Cycle</b>	8 minutes on / 40 minutes off at 4 Nm
<b>Shade Widths Supported</b>	18 to 133 in. (458 to 3,379 mm); Depending upon shade height and fabric selection
<b>Protection Class</b>	IEC 61140 Class III

### Power Requirements

<b>24 VDC</b>	42.5 W (1.8 A @ 24 VDC); Requires a <a href="#">CSA-PWS40</a> or <a href="#">CSA-PWS10S-HUB-ENET</a> power supply (all sold separately)
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### Wireless Communications

<b>RF Transceiver</b>	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
<b>Range (Typical)</b>	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 <sup>1</sup>
<b>Gateway</b>	Requires an infiNET EX gateway (sold separately)

### Connectors

<b>24 VDC</b>	(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

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

### Environmental

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

### Dimensions

<b>Diameter</b>	2.50 in. (64 mm)
<b>Length</b>	13.30 in. (338 mm)

### Weight

2.0 lb (908 g)

### Compliance

IC, FCC Part 15 Class B Digital Device

## Models

### CSM-QMTDC-250-4-EX

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### CSM-QMTDC-250-4-CN

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## Available Accessories

### CEN-GWEXER

infiNET EX® Network and ER Wireless Gateway

### CEN-GWEXER-PWE

infiNET EX® Network and ER Wireless Gateway with PoE Injector

### CLW-EXPEX-GD-W-T

infiNET EX® Wireless Expander, Ground Pin Down, White Textured

### CSA-PWS10S-HUB-ENET

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

### CSA-PWS40

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

Notes:

1. 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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## Digital QMT® Shade Motor for QMT5 Series, 4 Nm, infiNET EX® Communications

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](http://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](http://www.crestron.com/warranty) for full details.

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

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

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Rev 03/02/20