

CSM-QMTDC-163-1-SG

Battery Powered Digital QMT® Shade Motor for QMT3 Series, 3/4 Nm, SG Wireless



- *Easy installation in post-construction or retrofit applications*
- *3 year (average) battery life*
- *Install shades where power and control cabling cannot be run*
- *Designed for use with Crestron® QMT®3 Series Architectural or QMT3 Series Décor shade hardware*
- *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 SG wireless communications*
- *Powered using 8 D cell batteries in an external battery pack*
- *Limited Lifetime Warranty*

NOTE: The CSM-QMTDC-163-1-SG 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-163-1-SG 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 CSM-QMTDC-163-1-SG is capable of controlling shades that are 25.44 to 96 in. (646 to 2,439 mm) wide, depending on fabric, hardware configuration, and shade height.

The CSM-QMTDC-163-1-SG 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.

Long-life Battery Operation

Power is supplied to the QMT® shade motor via 8 D cell batteries (not supplied). The batteries are stored in an external battery compartment that is mounted in the fascia of QMT3 Series Architectural shade hardware. When mounting with QMT3 Series Décor shade hardware, the battery compartment can be hidden behind the roller shade fabric, valence, or drapes, and can be color-matched to the bracket hardware.

Integrated Controls

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

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.

SG Wireless Communication

SG wireless communication provides 2-way RF communications to the CSM-QMTDC-163-1-SG without the need for physical control wiring. The CSM-QMTDC-163-1-SG has a range of approximately 230 ft (70 m) indoors.

The CSM-QMTDC-163-1-SG communicates with a Crestron control system through an SG compatible wireless gateway ([CEN-GW1](#), sold separately). The [CEN-GW1](#) supports up to 100 iFiNET EX devices, 10 ER devices, and 50 SG devices.

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.

The CSA-ARCH3 fascia for battery-operated shades includes an integrated battery holder that neatly stores the battery compartment. The battery holder swings open to provide easy access for battery replacement.

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Simple Mounting

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

Specifications

Motor

Torque	3/4 Nm max; Torque values vary throughout the shade travel and are based on the shade configuration
Speed	10 - 18 RPM
Duty Cycle	8 minutes on / 40 minutes off at 3/4 Nm
Shade Width	Décor shade hardware: 25.44 to 96 in. (646 to 2,439 mm); Architectural shade hardware: 25.44 to 96 in. (646 to 2,439 mm); Architectural shade hardware with blackout channels: 29 to 96 in. (737 to 2,439 mm); Depending upon shade height and fabric selection

Power Requirements

Battery Pack	8 D cell batteries (not supplied) in an external battery compartment; 3 year (average) battery life ² ; Architectural shade hardware: The battery pack secures to the fascia via the integrated battery pack holder on the battery-operated shade fascia; Décor shade hardware: The battery pack can be mounted to a flat surface that is hidden behind the roller shade fabric or color-matched to the mounting hardware
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Wireless Communications

RF Transceiver	SG 2-way RF; 915 MHz; IEEE 802.15.4 compliant
Range (Typical)	230 ft (70 m) indoor, to SG wireless gateway; Subject to site-specific conditions and individual device capabilities
Gateway	Requires a Universal Wireless Gateway (CEN-GW1 , sold separately)

Connector

(1) 3-conductor attached lead with inline detachable terminal block;
Connects to battery compartment

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)

Compliance

Regulatory Model: M202034001
UL, cUL, FCC, IC, CE, RCM

Models

CSM-QMTDC-163-1-SG

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CSMI-QMTDC-163-1-SG

Battery Powered Digital QMT® Shade Motor for QMT3 Series, 3/4 Nm, SG Wireless, International

Available Accessories

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

Notes:

1. Battery-powered shade motors cannot be used with roman shades, horizontal sheers, dual-roll brackets, couplers, and pockets.
2. Estimated battery life is based on two open/close cycles per day. High environmental temperatures and shades taller than 60 in. (1524 mm) can reduce the battery life.

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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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