



QMotion Shade Control V1 Module Application Guide

Description

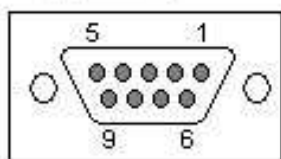
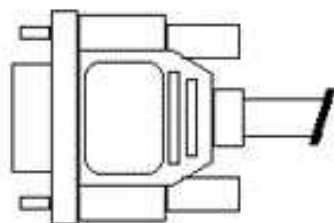
This module enables Crestron control of QMotion shades that are connected through a QMotion QConnect.

Supported Processors

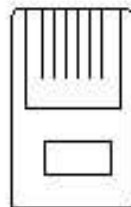
This module will run on any XGEN, 2 Series or 3 Series processor.

Compatibility			Processor Requirements	
				

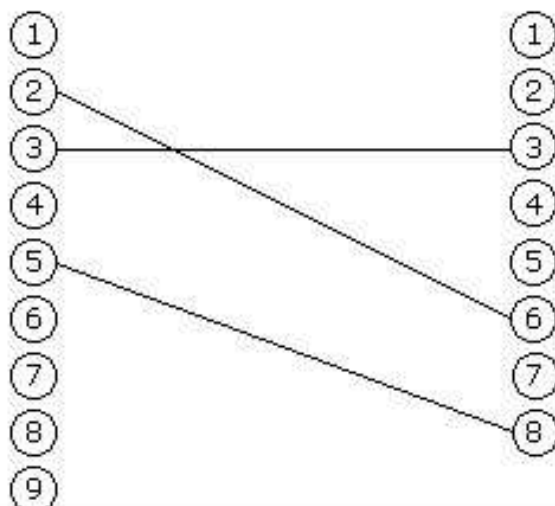
Serial Cable Pinout



**DB9 FEMALE
CRESTRON**



**RJ-45
QMOTION
QCONNECT**



SERIAL SETTINGS	
COMM STD	RS232
BAUD RATE	9600
DATA BITS	8
STOP BITS	1
PARITY	NONE
HW HANDSHAKING	NONE
SW HANDSHAKING	NONE

WWW.CONTROLWORKS.COM

Module Application

Hardware Configuration

The module connects to the first QConnect Bridge in the QConnect Network. The first bridge must be set to RS232 for operation with this module. A solid red LED on the bridge indicates the bridge is in RS-232 mode. The QConnect Bridge comes from the factory set for RS232 operation. To change the mode to RS232, follow these steps:

1. Unplug the power supply.
2. Turn the rotary switch to '0'.
3. Plug the power supply back in.

To daisy chain more QConnects simply set the rest of the QConnects to RS485 mode and set their ID's using the rotary switch and daisy chain them using the RS485 ports to the QConnect that is in RS232 mode.

Signal and Parameter Descriptions

Bracketed signals such as “[signal_name]” are optional signals

DIGITAL INPUTS

[shades_up]	Pulse to send the shades to the open position. Pulsing the direction opposite the shade is moving will stop the shade.
[shades_down]	Pulse to send the shades to the closed position. Pulsing the direction opposite the shade is moving will stop the shade.
[preset_1_(12.5%_down/_87.5%_up)].....	Pulse to send the shade to 12.5% down/87.5% up
[preset_2_(25.0%_down/_75.0%_up)].....	Pulse to send the shade to 25% down/75% up
[preset_3_(37.5%_down/_62.5%_up)].....	Pulse to send the shade to 37.5% down/62.5% up
[preset_4_(50.0%_down/_50.0%_up)].....	Pulse to send the shade to 50% down/50% up
[preset_5_(62.5%_down/_37.5%_up)].....	Pulse to send the shade to 62.5% down/37.5% up
[preset_6_(75.0%_down/_25.0%_up)].....	Pulse to send the shade to 75% down/25% up
[preset_7_(87.5%_down/_12.5%_up)].....	Pulse to send the shade to 87.5% down/12.5% up
[setpoint_a_(user_configurable)]	Pulse to send the shade to user set point A
[setpoint_b_(user_configurable)]	Pulse to send the shade to user set point B
[setpoint_c_(user_configurable)]	Pulse to send the shade to user set point C. Set point A is the initial 25% set point on a QMotion shade, set point B is the initial 50% set point on a QMotion shade, and set point C is the initial 75% set point on a QMotion shade. All three can be mapped to user specific locations on the shade, after they are mapped the bridge will send the shades to the user picked positions when Set point A, B, or C are sent out.

ANALOG INPUTS

This module does not utilize any analog inputs.

SERIAL INPUTS

shades_rx\$.	Route to RX\$ of com port.
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DIGITAL OUTPUTS

This module does not utilize any digital outputs.

ANALOG OUTPUTS

This module does not utilize any analog outputs.

SERIAL OUTPUTS

shades_tx\$.....	route to TX\$ of com port.
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PARAMETERS

Bridge ID	Location where shade to control is located in the QConnect bridge network.
Channel ID	The address of the shade to control.

Support

This module is supported by ControlWorks Consulting, LLC. Should you need support for this module please email support@controlworks.com or call us at 440-449-1100. ControlWorks normal office hours are 9 AM to 5 PM Eastern, Monday through Friday, excluding holidays.

Before calling for support, please ensure that you have loaded and tested operation using the included demonstration program and touchpanel(s) to ensure that you understand the correct operation of the module. It may be difficult for ControlWorks to provide support until the demonstration program is loaded.

Updates, when available, are automatically distributed via Email notification to the address entered when the module was purchased. In addition, updates may be obtained using your username and password at <http://www.controlworks.com/customerlogin.aspx>.

Distribution Package Contents

The distribution package for this module should include:

QMotion_Shade_Control_v1.umc.....Crestron User Module control of shades
QMotion_Shade_Control_Demo_TSW750_v1.vtp.....Demo touchpanel for TSW-750 touchpanel
QMotion_Shade_Control_Demo_PRO2_v1.smw.....Demo program for PRO2 processor
QMotion_Shade_Control_SB_Demo_PRO2_v1.sba.....Demo SystemBuilder Archive
QMotion_Shade_Control_v1_Help.pdf.....This help file.

Development Environment

This module version was developed on the following hardware and software. Different versions of hardware or software may or may not operate properly. If you have questions, please contact us.

Crestron Hardware	Firmware Version
Crestron PRO2 Processor	4.007.0004
Software	Software Version
Crestron SIMPL Windows	4.02.20
Crestron Vision Tools Pro-e	5.3.19
Crestron Smart Graphics Controls	2.00.13.00
Device Database	51.073.005.00
Crestron Database	41.01.005.00

ControlWorks Consulting, LLC Module License Agreement

Definitions:

ControlWorks, *We*, and *Us* refer to ControlWorks Consulting, LLC, with headquarters located at 701 Beta Drive, Suite 22 Mayfield Village, Ohio 44143-2330. *You* and *Dealer* refer to the entity purchasing the module. *Client* and *End User* refer to the person or entity for whom the Crestron hardware is being installed and/or will utilize the installed system. *System* refers to all components described herein as well as other components, services, or utilities required to achieve the functionality described herein. *Module* refers to files required to implement the functionality provided by the module and may include source files with extensions such as UMC, USP, SMW and VTP. *Demo Program* refers to a group of files used to demonstrate the capabilities of the Module, for example a SIMPL Windows program and VisionTools Touchpanel file(s) illustrating the use of the Module but not including the Module. *Software* refers to the Module and the Demo Program.

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Provision of Support

We provide limited levels of technical support only for the most recent version of the Module as determined by Us. We do not provide support for previous version of the module, modifications to the module not made by Us, to persons who have not purchased the module from Us. In addition, we may decline to provide support if the Demo Program has not been utilized. We may withdraw a module from sale and discontinue providing support at any time and for any reason, including, for example, if the equipment for which the Module is written is discontinued or substantially modified. The remainder of your rights and obligations pursuant to this license will not be affected should ControlWorks discontinue support for a module.

Modification of Software

You may not decrypt (if encrypted), reverse engineer, modify, translate, disassemble, or de-compile the Module in whole or part. You may modify the Demo Program. In no event will ControlWorks Consulting, LLC be liable for direct, indirect, incidental or consequential damages resulting from You modifying the Software in any manner.

Indemnification/Hold Harmless

ControlWorks, in its sole and absolute discretion may refuse to provide support for the application of the Module in such a manner that We feel has the potential for property damage, or physical injury to any person. Dealer shall indemnify and hold harmless ControlWorks Consulting LLC, its employees, agents, and owners from any and all liability, including direct, indirect, and consequential damages, including but not limited to personal injury, property damage, or lost profits which may result from the operation of a program containing a ControlWorks Consulting, LLC Module or any component thereof.

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