Crestron Module Documentation

for an

ATLONA

Universal
1.5-Way ComPort Expansion Module

Module developed for Atlona by Front Side Solutions.
www.frontsidesolutions.com

General Information:

Notes	
SIMPLWINDOWS NAME:	Atlona Universal 1.5-Way ComPort r0.0.usp
CATEGORY:	ComPort Expansion Module
VERSION:	r0.0
SUMMARY:	This module adds in the ability to use RS-232 ports on the switchers receiver units as 1.5-Way ComPorts.
GENERAL NOTES:	This module adds in the ability to use RS-232 ports on the switchers receiver units as 1.5-Way ComPorts. This module must be used in conjunction with an FSS generated Atlona matrix module as it provides internal queuing for this expansion module. The reason that this is considered 1.5-way is because the return path from the device is only open for a short period after a command is sent, so it cannot work as a true 2-way control port. This module is considered “Experimental” and is provided as-is. Use it at your own risk. If you are not willing to take the time to make this work properly, or you need guaranteed stability, please use the 1-way modules provided. That said, it has proven to be pretty stable in testing when used with (4) polling displays in different zones. Timing is very critical with this unit and you have to ensure that your device control modules are not polling on top of each other. You have to ensure that there is enough time between after a zone sends a string for a response to come back and be parsed before sending a string out a different zones port. NOTE: All Digital inputs are buffered inside the module. All buffered String inputs are sized for a length of 256 characters.
CRESTRON HARDWARE REQUIRED:	ST-COM, C2-COM, C2ENET-1/2
SETUP OF CRESTRON HARDWARE:	Unit Default is RS232 Baud: 115,200 Parity: N Data Bits: 8 Stop Bits: 1.

Parameters:

Parameter Name	Notes
RxWindow	This is the receive window for the return buffer. Typically it will be the same as the Rx $ Span on the switcher module. This basically is the wait time after a change event is triggered on the buffer that it waits to see if any more of the string has come in on subsequent logic waves before parsing the response and forwarding it out the Rx$.
Zone	Select the appropriate zone this instance of the ComPort module will be used on from the drop down list.
BaudRate	Select the appropriate Baud Rate this instance of the ComPort module will use from the drop down list.

DataBits	Select the appropriate Data Bits this instance of the ComPort module will use from the drop down list.
Parity	Select the appropriate Parity this instance of the ComPort module will use from the drop down list.
StopBits	Select the appropriate Stop Bits this instance of the ComPort module will use from the drop down list.

Control

Signal Name	Type	Notes
Enable	D	Latch High To enable the ComPort. Ussually attached to the Swith On Feedback of the Switcher Modules.
Tx$	S	This is the command you want to send to the device attached to the receivers RS-232 port.
Fm_Swt_Mod_$	S	Connect to the output of the appropriate Zones output on the Switcher module.

Feedback

Signal Name	Type	Notes
Rx$	S	This is the parsed response from the device attached to the receivers RS-232 port.
To_Swt_Mod_$	S	Connect to the input of the appropriate Zones input on the Switcher module.

Testing

Notes	
OPS USED FOR TESTING:	AV2: 4.007.005 MC3: 1.005.0015
SIMPL WINDOWS USED FOR TESTING:	4.01.10
DEVICE DB USED FOR TESTING:	46.05.007.00
CRESTRON DB USED FOR TESTING:	35.06.004.00
SAMPLE PROGRAM:	Atlona AT-PRO2HD1616M Advanced Demo (MC3) r0.0.smw
DEVICE FIRMWARE USED FOR TESTING:	1.1.19

Revision History

Date	Initials	Comments
12.27.2012	CDR	V0.0 Initial Release