Partner: Wavetrend
Model: L-RX201
Device Type: RF Tag Reader

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Wavetrend L-RX201 v1.0
CATEGORY:	Miscellaneous
VERSION:	1.0
SUMMARY:	Communicates with the Wavetrend **L-RX201** Reader via RS-232 and reports the status of up to 30 RF tags.
GENERAL NOTES:	Controls functions of the Wavetrend L-RX201 Reader via RS-232 and reports the status of up to 30 RF tags. The reader needs to be set to 9600 baud in order to work consistently. This is done using Wavetrend software. This module was tested with (2) L-RX201's and a Wavetrend PS300 power supply. Serial control requires that the Crestron com port be connected to the PS300's NET IN port via a CNSP-655 cable, then from the PS300's NET OUT port of the to the left ('IN') port of the L-RX201 via a straight through RJ45 cable using ONLY pins 1,2,3,4. When connecting readers as a network only 4 wires (pins 3,4,5,6) must be used straight through using an 8-pin RJ45 connector from the right ('OUT') port of one L-RX201 to the left ('IN') port of the next L-RX201. Manufacturer suggests that no more that 7 readers be chained together. The reader can be ID'd by either the Receiver_ID or Node_ID. If one is being used, the other needs to be set to zero (ex. Receiver_ID = 2, Node_ID = 0)
CRESTRON HARDWARE REQUIRED:	2-Series processor, C2I-COM, ST-COM or C2-COM-*
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	Tag readers need to be set to 9600 baud.
CABLE DIAGRAM:	CNSP-655

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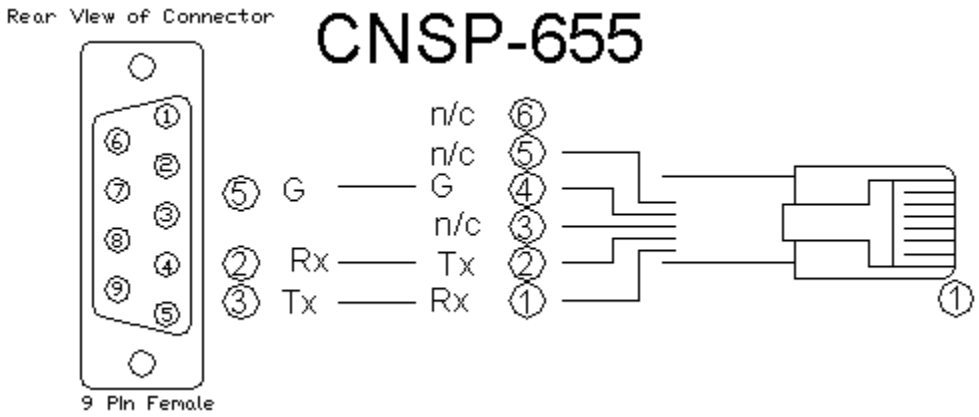

CONTROL:

Set_Site_Code	D	Pulse to enable the reader to monitor tags that are part of the site being monitored. Site code is entered in parameter.
From_Processor$	S	Serial information received from the Wavetrend L-RX201 Main Feedback Processor v1.0 module.

FEEDBACK:

Tag_ID_*_In_Range_Fb	S	Displays the tag ID's being used.
Tag_ID_*_Motion_Alarm_Fb	D	This is used to cause the TCP/IP client to connect to the device.
Tag_ID_*_Reed_Alarm_Fb	D	Connected feedback. This signal is passed through the module in case some one wants to use for something.
Tag_ID_*$	S	Serial string to indicate the tag number.
To_Device$	S	Serial commands routed to a 2-way serial port on device.

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PARAMETERS:

Site_Code	S	Site code that the reader will be assigned. The reader will filter out any tags that it receives that do not correspond to the stored site code value entered here. A setting of 0 will enable the reader to read all tags.
Interval	A	The amount of time to hold a tag's In_Range_Fb status before timing out. Recommended value is 5 to 10 minutes.
Receiver_ID	A	Receiver ID of the reader that is being polled. If this is selected, the Node_ID MUST be zero.
Node_ID	A	Node ID of the reader that is being polled. If this is selected, the Receiver_ID MUST be zero.
Tag_ID_*	S	Enter the ID's of the tags to be read. The tag ID's entered here will correspond with the In_Range, In_Motion_Alarm, and Reed_Alarm feedback signals.

TESTING:

OPS USED FOR TESTING:	3.155_1240
SIMPL WINDOWS USED FOR TESTING:	2.08.44
CRES DB USED FOR TESTING:	18.9.1
SYMBOL LIBRARY USED FOR TESTING:	497
SAMPLE PROGRAM:	Wavetrend L-RX201 v1.0 Demo PRO2
REVISION HISTORY:	v1.0

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