

**SIMPLWINDOWS NAME:** Alerton Transmit/Receive

**CATEGORY:** HVAC

**VERSION:** 1.0

**SUMMARY:** Generates and receives all information to/from the Alerton system

**GENERAL NOTES:** This module is used to communicate with the Alerton system. Only one copy of this module should be needed in a program. It provides the interface between the ALERTHEA and ALERDIGA modules, and the Alerton system. The inputs on this module should be connected to the corresponding outputs on the ALERRHEA and ALERDIGA modules.

Keeping all the communications logic in this module and having separate modules for thermostat emulation greatly reduces the amount of logic needed to control a small or large Alerton installation

**CRESTRON HARDWARE REQUIRED:** CNXCOM  
ST-COM

**SETUP OF CRESTRON HARDWARE:** Tested and verified at the following settings:

Baud Rate - 9600  
Parity - Odd  
Data Bits - 7  
Stop Bits - 1

**VENDOR FIRMWARE:** None

**VENDOR SETUP:** None

**CABLE NUMBER:** CNSP-121

## CONTROL:

<b>APEX</b>	A	Driven by an INIT symbol. Contains the analog Apex being controlled
<b>CAMPUS</b>	A	Driven by an INIT symbol. Contains the analog campus being controlled.
<b>TXRX-READ</b>	D	A signal to be connected to the corresponding output of the ALERTHEA or ALERDIGA module.
<b>TXRX-STORE</b>	D	A signal to be connected to the corresponding output of the ALERTHEA or ALERDIGA module.
<b>TXRX-SETPOINT</b>	A	A signal to be connected to the corresponding output of the ALERTHEA or ALERDIGA module.
<b>TXRX-FEEDBACK-1</b>	A	A signal to be connected to the corresponding output of the ALERTHEA or ALERDIGA module.
<b>TXRX-FEEDBACK-2</b>	A	A signal to be connected to the corresponding output of the ALERTHEA or ALERDIGA module.
<b>TXRX-READ-POINT</b>	A	A signal to be connected to the corresponding output of the ALERTHEA or ALERDIGA module.
<b>TXRX-WRITE-POINT</b>	A	A signal to be connected to the corresponding output of the ALERTHEA or ALERDIGA module.
<b>TXRX-ON</b>	D	A signal to be connected to the corresponding output of the ALERTHEA or ALERDIGA module.
<b>TXRX-OFF</b>	D	A signal to be connected to the corresponding output of the ALERTHEA or ALERDIGA module.
<b>ALERTON-RX\$</b>	S	Serial data signal to be routed from a CNXCOM card

## FEEDBACK:

**ALERTON-TX\$**            S            Serial data signal to be routed to a CNXCOM card

**OPS USED FOR TESTING:**            3.16.08

**COMPILER USED FOR TESTING:**      3.18.04

**SAMPLE PROGRAM:**                 ALERTST1

**REVISION HISTORY:**                None