

**SIMPLWINDOWS NAME:** None

**CATEGORY:** Conferencing

**VERSION:** 1.0

**SUMMARY:** Controls EF1210 functions for acoustic echo cancellation

**GENERAL NOTES:** Each different ASPI device on the ASPI bus will have a unique unit ID. The module requires unit ID values as parameters. The unit ID has to be the HEX representation of the unit ID. For example, for a unit ID of 00, the correct parameters on the module would be 30 for UNIT\_ID\_HIGH and 30 for UNIT\_ID\_LOW. For a unit ID of 01, the correct parameters on the module would be 30 for UNIT\_ID\_HIGH and 31 for UNIT\_ID\_LOW.

The module uses real feedback from the ASPI unit for all outputs.

The POLL\_BEGIN and POLL\_END can be used to do an initial poll of the ASPI units for their current status. The modules which have these inputs should daisy chain together with the POLL\_END output of the first module triggering the POLL\_BEGIN input of the next module. POLL\_END of the last module does not get attached to another module. See the example program for proper implementation of this function.

The ASPI Serial String Que must be used to ensure that ASPI bus traffic is handled properly. Failure to implement this module may result in improper feedback from the ASPI units. See the example program for proper implementation of this function.

**CRESTRON HARDWARE REQUIRED:** CNXCOM-2, ST-COM, CNXCOM, CEN-COM

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

Baud Rate - 9600  
Parity - None  
Data Bits - 8  
Stop Bits - 1

No Handshaking

**VENDOR FIRMWARE:** 1.01

**VENDOR SETUP:** None

**CABLE NUMBER:** CNSP-121

## CONTROL:

<b>ACOUSTIC_EC_CH(1-8)_ON</b>	D	Select acoustic echo cancel on for channel
<b>ACOUSTIC_EC_ALL_ON</b>	D	Select acoustic echo cancel on for all channels
<b>ACOUSTIC_EC_CH(1-8)_OFF</b>	D	Select acoustic echo cancel off for channel
<b>ACOUSTIC_EC_ALL_OFF</b>	D	Select acoustic echo cancel off for all channels

Digital trigger used to request an update poll for real feedback status. This only

<b>POLL_BEGIN</b>	D	needs to be implemented at program startup a status update is desired
<b>ASPI -RX\$</b>	S	Serial data string to be routed from the RX\$ of a COM port

**FEEDBACK:**

<b>ACOUSTIC_EC_CH(1-8)_ON_FB</b>	D	Real feedback indicating acoustic echo cancel is on for channel
<b>ACOUSTIC_EC_CH(1-8)_OFF_FB</b>	D	Real feedback indicating acoustic echo cancel is off for all channels
<b>POLL_END</b>	D	Digital signal to be looped to the next ASPI module to continue status update request chain
<b>ASPI_TX\$</b>	S	Serial data string to be routed to the TX\$ of a com port

**PARAMETER DESCRIPTIONS:**

<b>UNIT-ID-HIGH</b>	P	Hex version of EF1210's upper nibble of the unit ID. For ID 00, use 30. For ID 10, use 31.
<b>UNIT-ID-LOW</b>	P	Hex version of EF1210's lower nibble of the unit ID. For ID 00, use 30. For ID 01, use 31.

<b>OPS USED FOR TESTING:</b>	5.10.11
<b>COMPILER USED FOR TESTING:</b>	SimplWindows Version 1.40.07
<b>SAMPLE PROGRAM:</b>	EF1210 TEST REV1.SMW
<b>REVISION HISTORY:</b>	ASPI EF1210 ACOUSTIC EC1 - Original