

**SIMPLWINDOWS NAME:** Linn Pekin  
**CATEGORY:** Receiver  
**VERSION:** 1.0  
**SUMMARY:** Controls all basic functions on a Linn Pekin AM/FM Tuner  
**GENERAL NOTES:** This module will control all of the basic functions on a Linn Pekin AM/FM Tuner. It allows access to manual station entry, scan modes, presets (1-80), and several additional functions.

True feedback is provided indicating the currently active station frequency and band, at the TUNER\$ output. This can be routed to an indirect text field. When entering a new station manually, the frequency being entered will be reflected at the TUNE-NUMBER output. This should be connected to two different digital panel meters...depending on AM or FM selected. If AM is selected, the digital panel meter should have a format of xxxx. If FM is selected, the digital panel meter should have a format of xxx.xx. These two different fields can be easily turned on/off using sub pages driven by the AM-FB and FM-FB outputs of this module.

Storing a preset is a three step process:

1. Select the band and frequency desired.
2. Pulse the PRESET-STORE input. PRESET-STORE-FB will go high
- 3 Enter the preset number and press enter to store the preset

To recall a preset, enter the number on the PRESET-KEY-\* inputs and press PRESET-KEY-ENTER. This module has a POLL input. You should only need to poll the Pekin on start-up of the Crestron system, so that Crestron can synch up with the state of the Pekin. All subsequent feedback from the Pekin should be processed automatically by this module.

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

**SETUP OF CRESTRON HARDWARE:** Baud Rate -9600  
 Parity - Even  
 Data Bits - 7  
 Stop Bits - 1

**VENDOR FIRMWARE:** None

**VENDOR SETUP:** None

**CABLE NUMBER:** Use the cable that is included with the Pekin

**CONTROL:**

<b>SCAN-MODE-SEARCH</b>	D	Places the Pekin into search scan mode (it will stop at the first station found)
<b>SCAN-MODE-SCAN</b>	D	Places the Pekin into scan scan mode (it will stop for 5 seconds at each frequency found, and then go to the next frequency)
<b>SCAN-MODE-UP/DOWN/STOP</b>	D	Causes scanning in the up/down direction, or stops scanning
<b>TUNE-KEY-0-9/CLEAR</b>	D	Used to manually enter a station for tuning Pulse to send the previously entered

<b>TUNE-KEY-ENTER</b>	D	station to the Pekin
<b>TUNE-KEY-UP/DOWN</b>	D	Pulse to step up/down one frequency at a time
<b>PRESET-KEY-0-9/CLEAR</b>	D	Used to manually enter a preset for storage/recall
<b>PRESET-KEY-ENTER</b>	D	Pulse to store/recall the previously entered preset
<b>PRESET-STORE</b>	D	Place the module into Store mode. If PRESET-KEY-ENTER is pressed while in store mode, a preset will be stored
<b>BAND-AM/FM</b>	D	Used to select AM or FM band
<b>MONO-ON/OFF</b>	D	Used to activate/deactivate mono mode
<b>MUTE-ON/OFF</b>	D	Activate/deactivate mute
<b>IR-ON/OFF</b>	D	Enable/Disable the IR remote functions
<b>POLL</b>	D	Polls all settings of the Pekin. Should only need to be done once on start-up of the system
<b>PEKIN-RX\$</b>	S	Serial signal to be routed to a 2-way RS232 port

## FEEDBACK:

<b>TUNER\$</b>	S	Indicates the currently selected station. Could be routed to an indirect text field on a touch panel
<b>SCAN-MODE-SEARCH-FB</b>	D	Indicates that Search Scan mode is active
<b>SCAN-MODE-SCAN-FB</b>	D	Indicates that Scan Scan mode is active
<b>SCAN-MODE-* -FB</b>	D	Indicates the state of scanning. Could be used to activate legend buttons or indirect text indicating the state of scanning
<b>TUNE-NUMBER</b>	A	Indicates the station being entered from the TUNE-KEY-* inputs
<b>PRESET-NUMBER</b>	A	Indicates the Preset being entered from the PRESET-KEY-* inputs
<b>PRESET-STORE-FB</b>	D	Indicates that preset store mode is active
<b>BAND-AM/FM-FB</b>	D	Indicates which band is currently active
<b>MONO-ON/OFF-FB</b>	D	Indicates the state of mono mode
<b>MUTE-ON/OFF-FB</b>	D	Indicates the state of mute
<b>IR-ON/OFF-FB</b>	D	Indicates if IR commands are enabled/disabled
<b>PEKIN-TX\$</b>	S	Serial signal to be routed to a 2-way RS232 port

**.UPZ FILE USED FOR TESTING:** 5.12.01x.upz  
**COMPILER USED FOR TESTING:** SimplWindows Version 1.52.01  
**SAMPLE PROGRAM:** Linn Pekin Demo Program  
**REVISION HISTORY:** None