

May 2013

2 Line Analog Telephone Interface Card Creates New Possibilities in SymNet

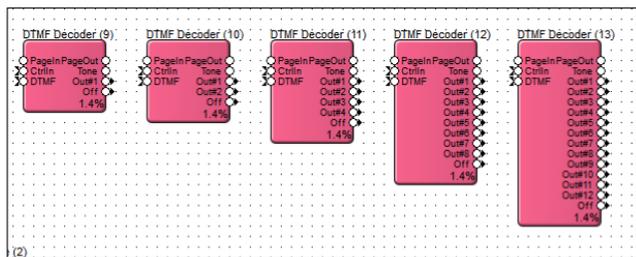
With the release of the SymNet 2 Line Analog Telephone Interface Card, Symetrix now offers a complete conferencing solution within the SymNet Composer platform. The 2 Line Analog Telephone Interface Card (ATI card) is compatible with both the SymNet Edge frame and Radius AEC. The SymNet Edge frame is a card-based DSP with four card slots available, allowing it to support up to four ATI cards per unit. Radius AEC has one optional card slot available, allowing it to support one ATI card per unit.

Conferencing applications are the most common designs in which the ATI card will be specified; however, there are several other applications that may benefit from the addition of the ATI card and the functionality it provides.

These additional ATI card applications include, but are not limited to:

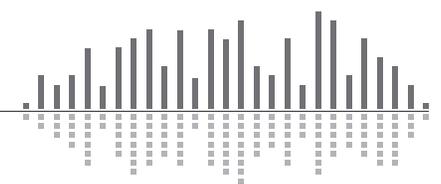
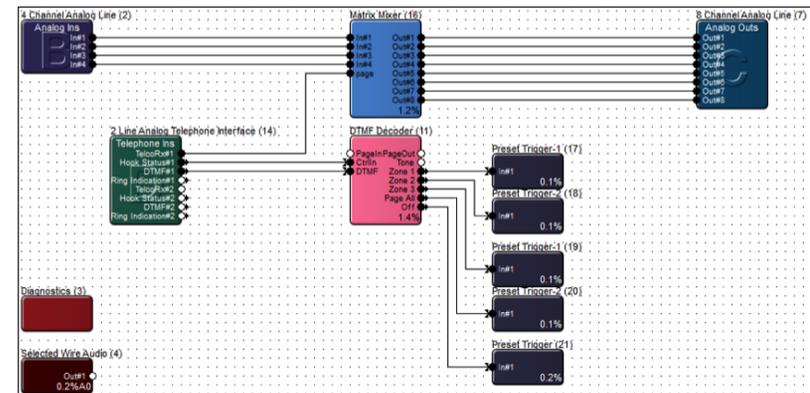
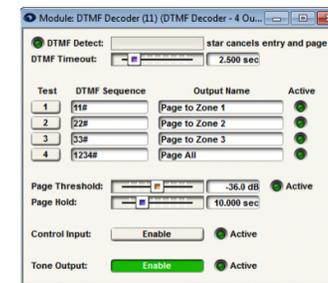
- Telephone Paging
- Remote System Monitoring
- System Soft Reset

All three of these applications are accomplished by using the ATI card in conjunction with the DTMF Decoder module provided in the SymNet Composer Toolkit under 'Conferencing & Paging'. The DTMF Decoder Module provides a way to trigger logic events in a SymNet system using custom DTMF tone sequences from a telephone. Most often the DTMF Decoder will be used to trigger a preset, but it can also be used to trigger any logic function, such as a bell, message player, logic output, etc. In SymNet Composer there are 1,2,4,8, and 12 output versions of the DTMF Decoder. When more than 12 DTMF sequences are needed, multiple DTMF Decoders can be used in parallel.



Telephone Paging:

In a paging application, the DTMF Decoder can trigger routing presets based upon DTMF sequences. In the provided example, the DTMF Decoder is set to trigger individual zone paging to zones 1 through 3, with a "Page All" preset also included on the DTMF Decoder output #4. The ATI card Telephone Ins module DTMF output connects to the DTMF input on the DTMF Decoder. The Hook Status output of the ATI card connects to the CtrlIn (control input) of the DTMF Decoder, which will monitor when the call is ended and then trigger the Off output of the DTMF Decoder. The Off output triggers a preset that will reset the routing matrix so that no zone selections are active between each page.

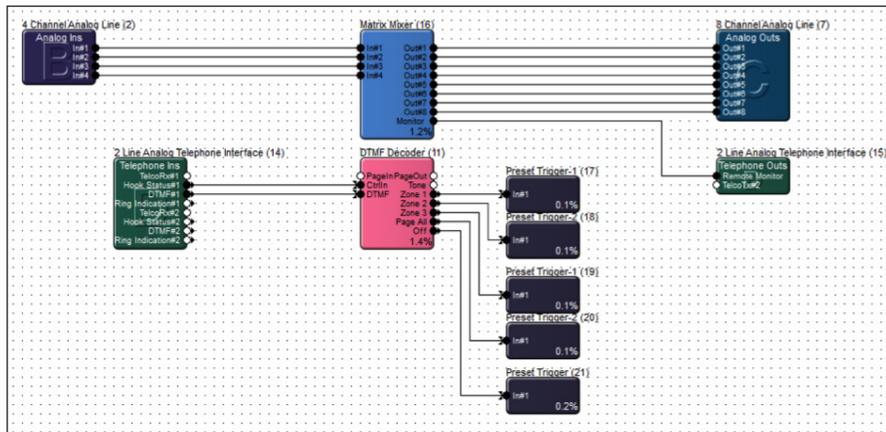


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Remote System Monitoring:

Similar to triggering a routing preset for paging applications, a routing preset could be triggered to allow remote monitoring of a system by an event manager, concierge, or integrator under a service contract. This would allow for remotely calling a venue and actively listening in on a current meeting or event.

Additionally this solution could be used by a technician for hearing a problem first hand, such as noise or distortion from a speaker or mic that an end user is experiencing, potentially eliminating a long drive to a venue when a problem is related to user error.



System Soft Reset:

Many times an audio system is tuned by an Integrator or Acoustician and the end result is an amazing sounding system. While ideally these tuned parameters would be static so that the audio system will always sound its best, the end user will need to be able to reconfigure routing, control gains and mutes, not to mention any other esoteric control functions the end user requires.

As such, sometimes a system ends up in a state, after weeks or months of end user adjustments, in which the end user perceives that the audio system “no longer sounds as good as it once did”. With an ATI card included with the system, some very basic logic can be used to set the entire SymNet system back to the tuned “default state” of all parameters without power cycling the hardware. This is known as a “soft reset”.

The programming is simple. In a SymNet site file, an ATI Telephone Ins DTMF output connects to a DTMF Decoder. The DTMF Decoder module output connects to a UDP/IP String Output Module or RS-232 String Output module that is used to send a “soft reset” command back to itself. With the UDP/IP String Output Module the command is simply sent to the DSP’s IP address on port 48630. When using a RS-232 String Output module, simply connect the RS-232 phoenix connector Tx to Rx, such that the command is sent by a DSP to itself. The command to be sent to the DSP for a soft reset is “LC 1” which stands for Load Configuration 1 and will cause the DSP to load the archived site file. The archived site file is the state of all parameters exactly where they were when the last “Push” was performed from SymNet Composer.

