

TX-0408i

4-Trunk/8-Extension/2-VoIP/6-Voice Full-Function PBX/VoIP Board

TX-0408i is a PCI bus function-full PBX board that provides 4-channel trunk line interface, 8-channel extension line interface, 2-channel VoIP interface, and 6-channel voice processing function. In addition, 7 tone plants and SCSA bus digital switching are also equipped onboard. Through a polling and shared memory technique, up to 16 TX-0408i boards can operate simultaneously in a single system -- the maximum number of lines that can be supported depends on the application, the amount of disk I/O required, and the power of the host computer used.

Drivers /API

- Drivers for Windows NT®/2000
- DLL type driver supports almost all kinds of programming languages
- API for C, VB are available

FEATURES & BENEFITS

- Single board PBX card provides full-function non-blocking switching
- 4-channel independent analog trunk line interface
- 8-channel independent extension line interface
- 2-channel independent VoIP interface
- 6-channel voice processing function
- Built-in 7 tone plants include two ringback tone, busy tone, warning tone, two dial tone and music on hold
- Provides free-port, non-blocking switching between ports onboard
- Extension line maximum length = 1 km
- Allows for a maximum of 5 sets of three-way conference
- Dedicated processor to ensure background operation
- Pulse dialing; Pause, flash time selection, loop current drop detection (Trunk Interface)
- Ring detection; Loop current detection; Onhook / offhook control (Trunk Interface)
- DTMF dialing; Pause time selection (Voice/VoIP Unit)
- Detect caller hang up signal whether or not the system is playing or recording message (Voice/VoIP Unit)
- Real time digitizing and decompression during recording and playback (Voice/VoIP Unit)
- Caller ID receiving/generating function
- Call Progress detection of busy, dial, or ringback tone (Voice/VoIP Unit)
- DTMF detection during playback or recording (Voice/VoIP Unit)
- Pickup/Hangup/Flash detection; Flash duration selection (Extension Interface)
- Ringing generation (Extension Interface)
- Expands to a maximum of 16 boards to support 64-channel trunk lines, 128-channel extension lines, 32-channel VoIP interface and 96-channel voice processing function
- SCSA bus compatible

TECHNICAL SPECIFICATIONS

Host Interface:

- Bus: PCI 32 bit bus
- Shared Memory: 96K bytes SRAM on each TX-0408i
- Interrupt: INTA
- Maximum Number of boards per system: 16

Analog Trunk Interface:

- Loop start
- Loop current drop detection
- Loop voltage polarity reverse detection
- Loop current: 20 - 80 mA polarity insensitive
- Impedance: 600 ohm nominal
- Frequency response: 200 -- 3400 Hz
- Ring detection: 30Vrms -- 140Vrms (16 -- 68 Hz)
- Pulse dialing: 10/20 PPS, M/B ratio 33/66, 40/60 selectable
- Modular phone jacks with 1 RJ-45 outlet
- Caller ID receiving: Bellcore GR-30-CORE & DTMF

Extension Interface:

- Loop start
- DC Supply: 55V (standby)
- Loop current: 20 mA
- Frequency response: 200 -- 3400 Hz
- Ringing: 40Vrms (20 Hz)
- Modular phone jacks with 1 RJ-45 outlets
- Caller ID generating: Bellcore GR-30-CORE
- Message light: Bellcore FSD 01-02-2000

VoIP Interface:

- Speech Digitizing Algorithm: G.729A, 8Kbps
- G.165/168 line echo cancellers
- Protocol: SIP or H.323
 - H.323: H.323V4, H.225, H.245
 - SIP: RFC-3261, RFC-2327, RFC-2833, RFC-3264
- DTMF dialing, Pause time selection
- DTMF receiving, supports SIP/H.323 out-band DTMF delivery
- Detect caller hang up signal whether or not the system is playing or recording message
- Real time digitizing and decompression during recording and playback
- DTMF detection during playback or recording
- Call Progress detection of busy, dial, or ringback tone

Speech Digitizing (Voice Unit)

- Algorithm: G.711
- Storage requirement: 64 Kbps

Switching bus

- SCSA bus: One 26-pin connector to standard SCSA bus

Audio-In/Out

- Input volume: 20-2000 mV (RMS)
- Input Impedance: 10K ohm
- Output volume: 200-2000 mV (RMS)
- Output Load Impedance: > 8 ohm (recommended)
- Connector: 3.5 mm stereo earphone jack

DC power Input

- Input voltage: DC 12V
- Power consumption: 1A
- Connector: 5-pin power connector
- Wiring from PC power supply

APPLICATIONS

- IP PBX
- VoIP Gateway