# TX-0012

## 12-port-extension Voice Processing Board

TX-0012 is a PCI bus PBX board that provides 12-channel extension line interface and 12-channel voice processing function. In addition, 7 tone plants and SCSA bus digital switching are also equipped onboard. Jumperless configuration eases the hardware installation. Through a polling and shared memory technique, up to 16 TX-0012 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 and Windows 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
- 12 independent voice ports per board
- Provides 12-channel independent extension line interface
- the amount of disk I/O required and DRAM are adapted from S/W
- Extension line maximum length = 1 km
- 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
- Allows for a maximum of 2 sets of eight-way conference
- Dedicated processor to ensure background operation
- Pickup/Hangup/Flash detection; Flash duration selection (Extension Interface)
- Ringing generation (Extension Interface)
- DTMF dialing; Pause time selection (Voice Unit)
- Detects caller hang up signal whether or not the system is playing or recording message (Voice Unit)
- Caller ID generating function
- Real time digitizing and decompression during recording and playback (Voice Unit)
- Call Progress detection of busy, dial, or ringback tone (Voice Unit)
- DTMF detection during playback or recording (Voice Unit)
- Expands to a maximum of 16 boards to support 192-channel extension lines
- SCSA bus compatible
- Supports SCSA bus switching

## TECHNICAL SPECIFICATIONS

### Host Interface:
- Bus: PCI 32 bit bus
- Shared Memory: 96K byte SRAM on each TX-0012.
- Interrupt: INTA
- Maximum Number of boards per system: 16

### Extension Interface:
- Loop start
- DC Supply: 55V (standby), 20V (active)
- Loop current: 20 mA
- Frequency response: 200 -- 3400 Hz
- Ringing: 50Vrms (20 Hz)
- Modular phone jacks with 3 RJ-45 outlets

### 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

- Auto Attendant
- Voice Mail Box / Voice messaging
- Interactive voice response
- Debit card and international call back
- Call Center
- On-line data entry/query
- Billing system (SMDR)