

Voice Recording System VC-MDX

Interface Board BRI / S0

Version 2206

1 General

The ISDN BRI (Basic Rate Interface) / S0 interface board is a development of VoiceCollect GmbH (former ATIS Uher). This board is used to receive and record voice signals and signaling data from ISDN S0 telephone lines, to convert the signals into VC proprietary format and to save them on storage device.

The Board provides 4 BRI / S0 Interfaces (8D-channels), so 1 ISDN Interface Board provides 8 recording channels

It moves audio data and commands to / from recording host CPU through the host PC PCI interface.

The 4 S0 ISDN Interface Board is used for ISDN connections.

Both when using an ISDN telephone system and directly when connecting the end device to the NTBA.

It supports 4 x 2 channels for parallel connection.

2 Technical

The S0 PCI board is designed as a full size PCI board.

The S0 PCI board, with the Motorola MPC850SAR processor as the core, is used in the recording systems as a passive 4 S0 Lines unit to record telephone calls.

It supports:

- line supervision,
- audio capture,
- Real-time DTMF signal processing,
- Audio data compression,
- ISDN signalling.

The connection to the telephone lines is implemented using isolated, high-impedance S0 interfaces. The audio and signal data is routed from the telephone line to the PCI bus under PC CPU control.

The power supply is ensured by internal POWER and GROUND trace layers. Most ICs, resistors and capacitors are SMD components.

The 4 S0 Line connections (RJ45) to the telephone lines are routed outwards on the slot cover plate.

Picture of ISDN Interface Board



5000L04_ISDN 4x S0 Interface Board PCI

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