singleE1 ® mini PCI ISDN

Productsheet

The **singleE1® miniPCI ISDN** turns your legacy ISDN equipment (or analog equipment behind an ISDN TA) into powerful Voice over IP devices. It provides a soft migration path from ISDN technology to the new Voice over IP world (see Application 1).
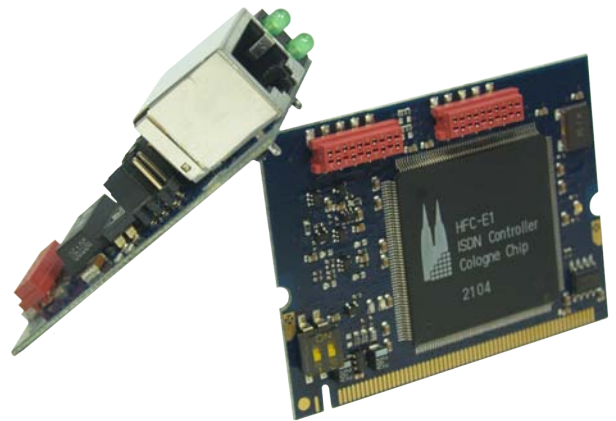
Connect your ISDN PBXes at different locations with Voice over IP and drop costs for company internal calls close to zero. Transparently add least cost routing over ISDN or VoIP carriers to reduce costs on outbound calls significantly.

The **singleE1® miniPCI ISDN** brings powerful ISDN BRI connectivity to your Linux machine. It comes with fully **GPL**ed drivers for the Linux 2.4.X and 2.6.X kernels.

The BRI port can be configured for TE or NT mode individually by jumpers. This port configuration is detected by the driver automatically.
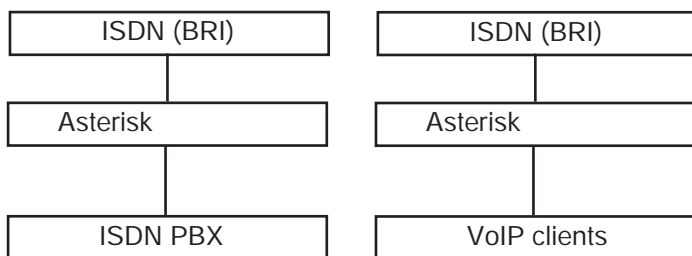
The drivers can handle the user and network side of **euroISDN** (ETS 300 102) signalling, support for National ISDN 1 (Q.931) is planned.

The miniPCI form factor is the ideal base to build highly integrated and cost effective Voice over IP gateways and PBX solutions.

Application 1: Integration of an ISDN PBX

| ISDN (BRI) |
| Asterisk |
| ISDN PBX |

Application 2: Voice over IP gateway for BRI

| ISDN (BRI) |
| Asterisk |
| VoIP clients |

Target applications

- ISDN PRI PBX (embedded)
- ISDN least cost router
- Voice over IP BRI gateways
- VoIP integration of ISDN equipment
- **PBX to PBX trunking**
- **IAD with 1 PRI interface**

Features

- 1 Primary Rate Interface port (I.421) for TE and NT mode
- DTMF detection
- Conference bridge
- 1 dual-color LED (layer 1 state indicators)
- active channel switching (across multiple cards over the external PCM bus)
- **TRB3/TRB3-A1** certified Point-to-Point (TE/NT) and Point-to-Multipoint (TE/NT) euroISDN protocol stack
- suitable for miniPCI III slots

Requirements

- CPU 200+ MHz (AMD Geode and MIPS tested)
- RAM 32+ MB
- Linux 2.4.X or 2.6.X Kernel (2.6.X recommended)