**General Description**

The PEB 2085/86 ISAC-S implements the four-wire S₀ interface used to link voice/data terminals to an ISDN. The component switches B- and D-channels between the S₀ and the ISDN Oriented Modular (IOM) interfaces, the latter being a standard backplane interface for the ISDN basic access. The HDLC packets of the ISDN D-channel are handled by the ISAC-S which interfaces them to the associated microcontroller.

**Applications**

- Voice/Data Terminals
- ISDN PC Cards/Terminal Adapters
- Videophone
- Video PC Cards/Conferencing Systems
- G4 FAX
- Tele Control Systems
- Point-of-Sales Terminal

**Features**

- Full duplex 2B+D S₀ interface transceiver according to CCITT I.430
- Conversion of the frame structure between the S/T interface and IOM
- Receive timing recovery according to selected operating mode
- D-channel access control; support of LAPD protocol
- FIFO-buffer (2 x 64 bytes) for efficient transfer of D-channel packets
- 8-bit microprocessor interface, multiplexed or non-multiplexed
- Serial interface: IOM-1, SLD, SSI, IOM-2
- Implementation of IOM-1/IOM-2-MONITOR and C/I-channel protocol to control peripheral devices
- Watchdog timer

**Block Diagram**

**Type** | **Package**
---|---
P-2085-N | P-LCC-44-1 (SMD)
P-2085-P | P-DIP-40-2
P-2086-H | P-MQFP-64-1 (SMD)
P-2086-N | P-LCC-44-1 (SMD)