

General Description

The PSB 2186 ISAC-S TE 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-2) 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 TE 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
- Cash Register Internetworks
- Point-of-sales terminals

Type	Package
PSB 2186-H	P-MQFP-64-1 (SMD)
PSB 2186-N	P-LCC-44-1 (SMD)
PSB 2186-P	P-DIP-40-2

Features

- IOM-2 terminal specific version of the PEB 2086 (downward pin and SW compatibility)
- Full duplex 2B+D S₀-interface transceiver according to CCITT I.430
- Conversion of the frame structure between the S/T interface and IOM-2
- D-channel access control; support of LAPD control
- FIFO buffer (2 × 64 bytes) for efficient transfer of D-channel packets
- 8-bit microprocessor interface, multiplexed or non-multiplexed
- Serial interface: IOM-2 interface including bit clock and strobe signal
- Implementation of IOM-2 MONITOR and C/I-channel protocol to control peripheral devices

