High-Level Serial Communications Controller for Terminals (HSCX-TE)

PSB 21525

General Description

The HSCX-TE is an optimized terminal version of the HSCX (SAB 82525). The HSCX-TE has been designed to implement high-speed communication links using HDLC protocols and to reduce the hardware and software overhead needed for serial synchronous communications.

Applications

- ISDN PC Card/Standalone Box
- ISDN Data Terminal

Type	Package
PSB 21525-H	P-MQFP-44-2 (SMD)
PSB 21525-N	P-LCC-44-2 (SMD)

Features

- Optimized solution of HSCX (SAB) for terminal equipment
  Non-auto mode and transparent mode (no auto-mode)
  Clock mode 5 only
  Transfer of data blocks from/to system memory by interrupt request (no DMA mode)
- Two independent full-duplex HDLC channels
- Independent time-slot length (1-256 bit)
- Transparent receive/transmit of data bytes without HDLC framing
- Various types of protocol support depending on operating mode
- 64-byte FIFOs per channel and direction
- 8-bit demultiplexed or multiplexed bus interface

Block Diagram