SIEMENS **Product Brochure for ISAC-S TE** **8/97**

ISDN Subscriber Access Controller for Terminal Applications PSB 2186

The PSB 2186 ISAC-S TE is an IOM-2 terminal specific version of the ISAC-S PEB 2086. It implements the four-wire S_0 interface used to link voice/data terminals to an ISDN. The component switches B and D channels between the S_0 and the ISDN Oriented Modular IOM-2 interface. The HDLC packets of the ISDN D channel are handled by the ISAC-S TE which interfaces them to the associated microcontroller.

1. Potential application

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

Customers
Telephone Manufacturers
Data Terminal Manufacturers (PC-cards, terminal adaptors)
Video System Manufacturers
Data Networking / Data Communication Manufacturers

2. Features:

IOM-2 terminal specific version of the PEB 2086 (downward pin and SW compatibility)
Full duplex 2B+D So 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 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-2 interface including bit clock and strobe signal
Implementation of IOM-2 MONITOR and C/I-channel protocol to control peripheral devices

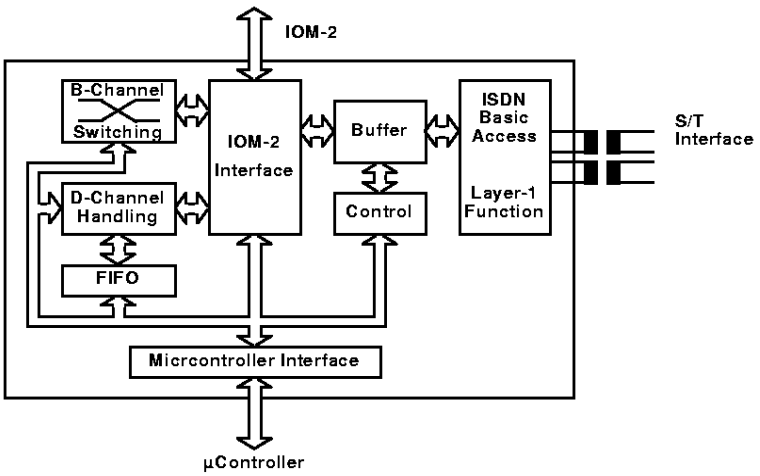
3. Packing

Type	Ordering Code	Package
PSB 2186 V1.1 (P)	Q67100-H6389	P-DIP-40
PSB 2186 V1.1 (N)	Q67100-H6390	P-LCC-44
PSB 2186 V1.1 (H)	Q67101-H6412	P-MQFP-64
PSB 2186 V1.1 (F)	Q67107-H6778	P-TQFP-64

4. Product status

Product	Step	Status	Changes
PSB 2186 (P,N,H)	V1.1	Prod. Delivery Release	
PSB 2186 (F)	V1.1	ES available	

5. Diagram



6. Documentation (Please contact our sales office for details)

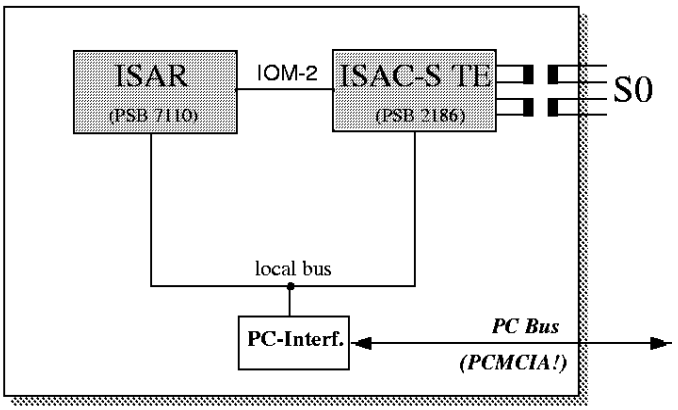
	Date of issue/version	Type of material
User's Manual	10/94	Booklet (B115-H6694-X-X-7600)

7. Development and support tools

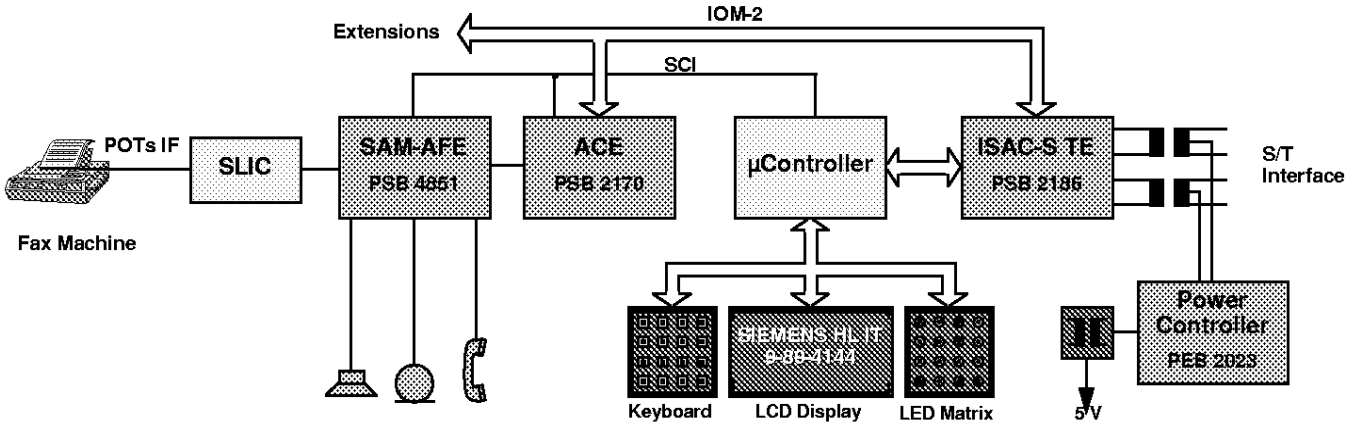
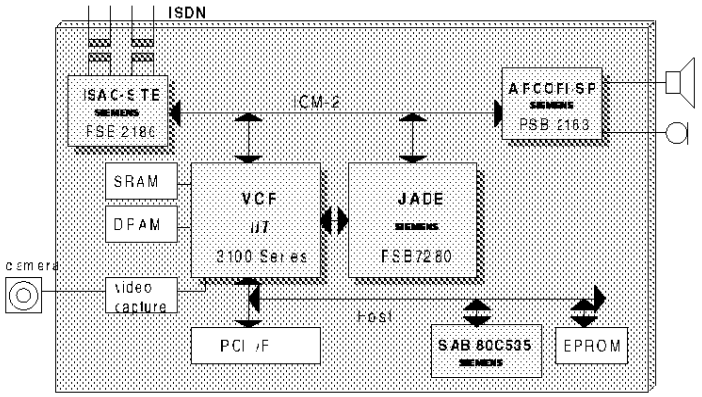
		Availability	Ordering number
SIPB5100_1	S-Access Module (with PSB 2186)	available	Q67100-H6598
SIPB5000	Mainboard	available	Q67100-H8647

8. Applications

- **ISDN PC-Card with FAX capability**



- **ISDN Telephone with Full-Duplex Echo Cancellation**



- **ISDN Videophone**