## ISDN Terminal Adapter Circuit IPAC PSB/PSF 2115

*The ISDN Adapter Circuit IPAC integrates all necessary functions for host based ISDN access solution on a single chip. It includes the S-transceiver (Layer 1) an HDLC controller for the D-channel and two protocol controllers for each B-channel. The system integration is simplified by several host interface configurations selected via pin strapping.*

## 1. Potential application

- ISDN PC-Cards/TA
- ISDN Data Terminal

## 2. Features:

- Single chip host ISDN solution
- Integrates S-transceiver, D-channel, B-channel protocal controller
- Replaces solutions based on ISAC-S TE PSB 2186 and HSCX-TE PSB 21525
- Easy adjustment of software using ISAC-S and HSCX-TE
- Various types of protocol support depending on operating mode (Non-auto mode, transparent mode)
- Efficient transfer of data blocks from/to system memory by DMA or interrupt request
- Enlarged FIFO buffers for B-channels (2x64 byte) esch channel and direction
- S-transceiver with TE, LT-S and LT-T modes
- D-channel FIFO buffers with 2x32 byte
- D-channel priority handler on IOM-2 for intelligent NT applications
- Programmable I/O interface with 2 interrupt inputs
- PCM interface for non IOM-2 compatible peripheral data controllers
- Programmable timer (1...63 ms) for continuous or single interrupts
- Reduced register address space due to indirect address mode option
- 3 programmable LED outputs, one is capable to indicate S bus activation status automatically
- 8-bit multiplexed or demultiplexed bus interface
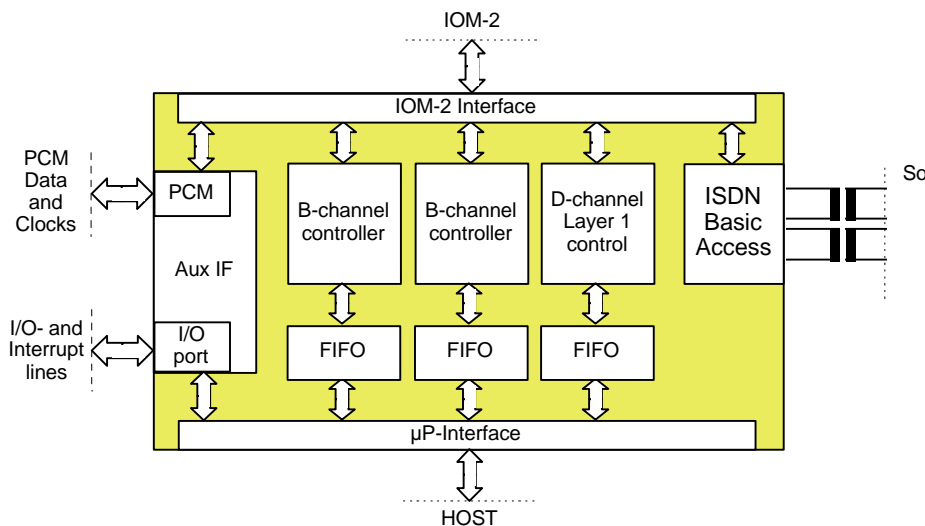- Siemens/Intel or Motorola µP interface

## 3. Packaging

| Type | Ordering Code | Package |
|---|---|---|
| PSB 2115 H V1.1 | Q67100-H6885 | P-MQFP-64 (SMD) |
| PSB 2115 F V1.1 | Q67100-H6884 | P-TQFP-64 (SMD) |
| PSF 2115 H V1.1 | Q67223-H1033 | P-MQFP-64 (SMD) |

## 4. Product status

| Product | Step | Status | Changes |
|---|---|---|---|
| PSB 2115 H/F/PSF 2115 | V1.1 | ES available/ES in Q3/97 | |

## 5. Diagram

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

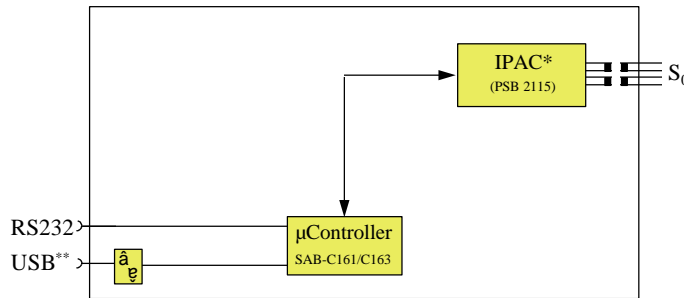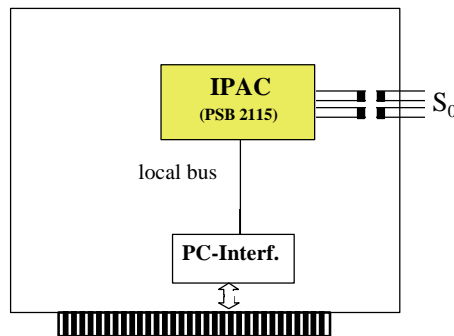|  | Date of issue/version | Type of material |
|---|---|---|
| IPAC Ref. Board-Spec. | 4/97 | Copy |
| Delta Sheet PSF 2115 | 5/97 | Copy |
| Preliminary Data | 3/97 | Copy |
| Article: IPAC makes ISDN affordable | 1/97 | B118-H7078-x-x-7600 |
| Preiswerte ISDN-Endgeräte durch IPAC | 1/97 | B118-H7078 |

## 7. Development and support tools

|  | Availability | Ordering number |
|---|---|---|
| SIPB72115 IPAC Ref. Board S-only, complete package | 8/97 | Q67100-H6649 |
| SIPB72115 IPAC Rerf. Board S- and U-Interface | 9/97 | Q67220-H1024 |
| SIPB72115 IPAC Terminal Adapter Package (by Stollmann) | 10/97 | Q67220-H1048 |

## 8. Applications

- ISDN Terminal adapter

- One chip ISDN-PC Card

- Multiline PC-Adapter