ISDN Data Access Controller ISAR PSB 7110

The PSB 7110 ISAR has been designed as advanced solution for passive ISDN PC-cards and stand alone terminal adapter boxes. It is an ISDN data access controller, which supports data rate adaptation, standard HDLC protocoling and communication with remote analog fax or modem applications.

1. Potential application
- ISDN PC-Card / Standalone Box
- ISDN Data Terminals
- Fax Pools / Fax Gateways
- ISDN/Fax Routers

2. Features:
- Two universal formatter supporting async, HDLC and binary framing of B-channel data
- Bit rate adaptation according to V.110 for both B-channels (except during datamodem modulation)
- IOM-2 terminal mode (1.536 Mhz), line card mode (4MHZ)
- Fax / modem modulation up to 14.4 kbaud (V.32bis, V.17) including fall back modes
- DTMF generation / reception
- External memory interface to connect external SRAM with a size of 32K x 16 for program and data
- 61 byte FIFO per direction for host interface communication
- Mailbox interface for host communication
- 3.6V power supply with separate 5V supply for interface pins
- Advanced CMOS technology

3. Packing

<table>
<thead>
<tr>
<th>Type</th>
<th>Ordering Code</th>
<th>Package</th>
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<tbody>
<tr>
<td>PSB 7110F V1.0</td>
<td>Q67101-H6748</td>
<td>P-TQFP-100</td>
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4. Product status

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<th>Status</th>
<th>Changes</th>
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<tbody>
<tr>
<td>PSB 7110</td>
<td>V1.0</td>
<td>Production</td>
<td></td>
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</tbody>
</table>

5. Diagram

IOM-2 / PCM Bus

Timeslot Assign

Pump

SART

ASYNC, HDLC, Binär

Buffer 1

Host

Mailbox

Buffer 2

Buffer 3

Buffer 0

HDLC

DTMF Code Handler

Monitor Handler

Test Diagnosis
6. Documentation

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<tr>
<th>Date of issue/version</th>
<th>Type of material</th>
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<td>Delta Sheet V1.0</td>
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<td>Delta Sheet V1.0 Nr.4</td>
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<td>B115-H6967-X-X-7600/B115-H6967</td>
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7. Development and support tools

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8. Applications (possible examples)

- ISDN Terminal Adapter featuring ISDN,, modem fax

![Diagram of ISDN Terminal Adapter featuring ISDN, modem fax]

- ISDN PC-Card

![Diagram of ISDN PC-Card]