ISDN Subscriber Access Controller for U PN-Interface Terminals PSB 2196

The PSB 2196, ISDN Subscriber Access Controller for U PN-interface ISAC-P TE, implements the subscriber access functions for a digital terminal to be connected to a two-wire U PN-interface. The PSB 2196 ISAC-P TE combines the functions of the U PN-transceiver (one channel of the OCTAT-P PEB 2096) and the ISDN-Communications Controller (ICC, PEB 2070) onto one chip. The ISAC-P TE interfaces to voice/data devices via the IOM²-2 interface. The terminal repeater function of the ISAC-P TE allows to cascade two telephones which are controlled by one U PN-interface from the line card.

1. Potential application
   - All kind of PBX Telephones
   - Terminal Repeater Modules
   - PC-Cards, Videophones, and Video
   - Conferencing Systems with proprietary U PN-interface
   - Terminal Adaptor with proprietary U PN-interface
   - a/b-Adapter with proprietary U PN-interface

   Customers
   - PBX Telephone Manufactures of:
     - Key Systems
     - Small PBX Systems
     - Mid Range PBX Systems
     - Large PBX Systems

2. Features:
   - Cost/performance-optimized U pn-interface transceiver, compatible to PEB 2096 OCTAT-P
   - HDLC-controller with 2x32-byte FIFO per direction
   - HDLC-address recognition and control field handling compatible to PEB 2070
   - IOM-2 interface for terminal application compatible to PEB 2070 ICC
   - 8-bit multiplexed microprocessor interface
   - 4-wire serial programming interface
   - CPU-clock and reset outputs
   - Test loops

3. Packing
<table>
<thead>
<tr>
<th>Type</th>
<th>Ordering Code</th>
<th>Package</th>
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<tbody>
<tr>
<td>PSB 2196H V1.4</td>
<td>Q67101-H6570 (pref. package)</td>
<td>P-MQFP-44</td>
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<td>PSB 2196N V1.4</td>
<td>Q67100-H6569</td>
<td>P-LCC-44</td>
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4. Product status
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<th>Product</th>
<th>Step</th>
<th>Status</th>
<th>Changes</th>
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<td>PSB 2196 N/H</td>
<td>V 1.4</td>
<td>Prod. Delivery Release</td>
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5. Diagram
6. Documentation (Please contact our sales office for details)

| App. Note: Migration from PEB 20950 ISAC-P to PSB 2196 ISAC-P TE | 12/93 | Copy |
| App. Note: Extending the Upn Interface Loop Length using ISAC-PTE or SmartLink | 6/96 | Copy |
| Errata Sheet V1.1, V1.2, V1.3 | 6/94 | T2196-XV15-L1-7600 |

7. Development and support tools

| Availability | Ordering number |
| SIPB5104 ISAC-P TE/TR Module | available | Q67100-H6426 |
| SIPB5000 Mainboard | available | Q67100-H8647 |

8. Applications

- PBX Feature Phone

- Terminal Repeater Module

- PBX-PC Card