General Description

The PCM Interface Controller (PIC) PEB 2052 is a device for the control of voice, data and signaling paths of up to 16 subscribers on peripheral component boards in digital communication systems. In combination with the highly flexible Signal Processing Codec Filter (SICOFI) PEB 2060/2260 it forms an optimized, analog subscriber line board architecture. Its flexibility enables its operation as a general-purpose controller for data switching and MUX/DEMUX applications.

The PIC controls space and time switching functions between subscriber line devices and time division multiplex highways. Furthermore, it controls the flow of information between the subscriber interface ports and a line card local processor.

To meet different requirements the PIC PEB 2052 provides the following interfaces:

- Eight serial, bidirectional I/O ports for the transfer of voice, data, control and signaling information between the PBC and codec filters (e.g. SICOFI PEB 2060/2260), digital interface circuits or signal processors.
- Double constructed PCM interface for a redundant system configuration with load sharing operation.
- Bit-parallel interface for the connection of a standard 8-bit microcomputer such as SAB 8051.

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<th>Type</th>
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<td>PEB 2052-N</td>
<td>P-LCC-44-1 (SMD)</td>
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Features

- Board controller for up to 16 subscribers of a digital switching system
- Suitable for all PCM systems (24/32/48/64 time-slots) according to European and US standards
- SLD-bus to peripheral circuits, e.g. codec filter devices or ISDN components
- Time-slot assignment freely programmable for all connected subscribers
- µP access to all internal data streams including time-slot oriented data streams
- All functions software-programmable via a standard µP interface
- TTL-compatible inputs and outputs, including clock input
- Single + 5 V power supply
- Advanced low power CMOS technology

Applications

Telecommunication subscriber board interface controller IC for digital exchange PCM systems performing:

- digital exchange functions
- digital concentrator functions
- signaling and interface control functions
- multiplex functions