

General Description

The PEB 2466 SICOFI-4 µC, is a programmable codec with filter functions for four channels. Due to an advanced digital filter concept based on a DSP, analog line cards can be easily adopted to different country specifications and SLICs. The device can be directly connected to two PCM highways at flexible data rates. The coefficients to modify gain, frequency response, transhybrid loss and impedance matching are calculated via a specific software (QSICOS) and send to the codec, for each channel individually, via the microcontroller interface.

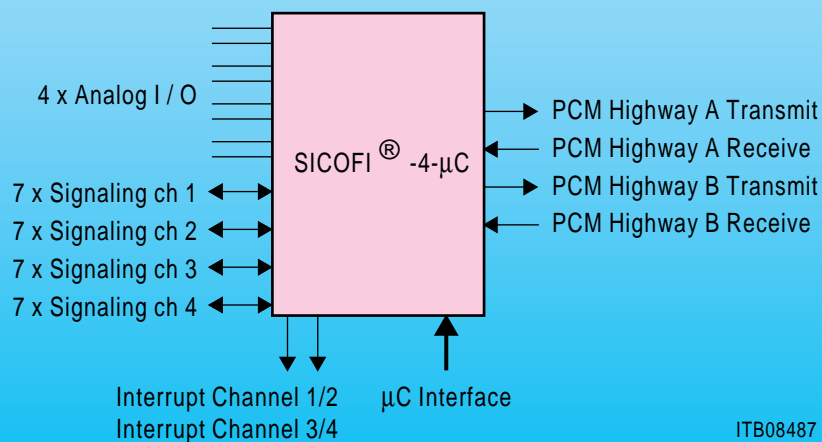
Applications

- Analog line cards for CO and PBXs
- Fiber to the curb applications
- Access networks and multiplexers
- Set-top-boxes
- PCM4/PCM8 systems
- Intelligent NTs

Type	Package
PEB 2466-H	P-MQFP-64-1 (SMD)

Features

- Four channel single chip codec and filter
- Specifications according to the relevant CCITT, EIA and LSSGR recommendations
- Programmable digital filters for adapting transmission behaviour according to different country specifications
 - AC impedance matching
 - Transhybrid balancing
 - Frequency response
 - Gain
 - a/μ-Law expansion/compression
- Programmable interface to electronic SLICs and transformer solutions
- Two flexible programmable PCM interfaces (data rate from 128 kbit/s up to 8192 kbit/s)
- Serial microcontroller interface
- High analog driver capability (300 Ω, 50 pF)
- Very low power dissipation (typ. 35 mW/channel)
- Two programmable tone generators (DTMF possible)
- Level metering function for testing of analog input signals
- 7 SLIC-signaling interfaces per channel (programmable debouncing)
- Single power supply of 5 V (allows to get rid of the – 5 V supply)
- P-MQFP-64 package



ITB08487

Block Diagram