

Joint Audio Decoder Encoder PSB 7280

The PSB 7280 is a device which implements voice compression algorithms defined in the ITU-TS G.711, G.722 and the G.728 Recommendation. It fits best into every application where audiocompression is needed.

1. Potential applications

- ISDN Videophones
- Video Conference Systems
- Corporate Network voice concentrators, multiplexers and gateways
- Data-over-voice and Voice-over-data terminals
- Networks (e.g. LANs) for packetized voice
- Digital Added Main-Line (DAML) & Digital circuit Multiplication Equipment (DCME)
- Voice storage e.g. in PC based applications

2. Features:

- G.711/G.722/G.728 Compression/Decompression for one audio channel
- Programmable G.711/G.722/G.728 modes with mixed modes of operation (e.g. G.722 in receive and G.728 in transmit direction)
- A/μ law recognition in G.711 mode (according to G.725 Appendix I)
- Digital sampling rate conversion (16kHz-8kHz) for G.722 audio with 8kHz Codec (bandwidth reduced to 3.4 kHz)
- Accepts/outputs uncompressed audio in 16-bit linear format
- Inband controlled H.221 oriented audio protocol, e.g. for direct serial connection to Videotec (VCP of 8x8 Inc., formerly IIT Inc.)
- Access to audio channels and HDLC/serial transparent data controllers from DSP or an external Host.
- Programmable on-chip PLL for internal clock generation from ISDN low frequency clock
- All Program and Data memory on-chip
- Flexible interfaces (e.g. IOM-2/PCM, serial audio interface, parallel 8-bit host interface, external memory interface)
- Supply voltage : 3,4 to 3,8 V
- 0,5 μm CMOS technology

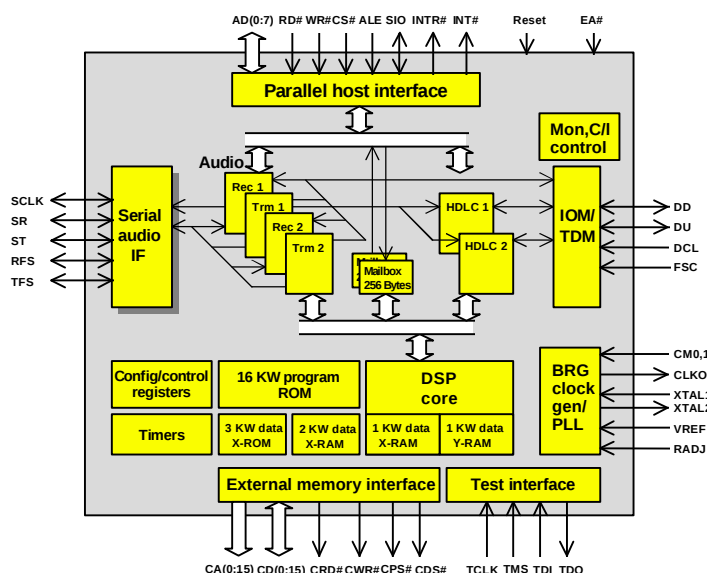
3. Packing

Type	Ordering Code	Package
PSB 7280-V 2.2	Q67101-H6780	P-TQFP-100

4. Product status

Produkt	Step	Status	Changes
PSB 7280	V.2.2	Production	--

5. Diagram



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

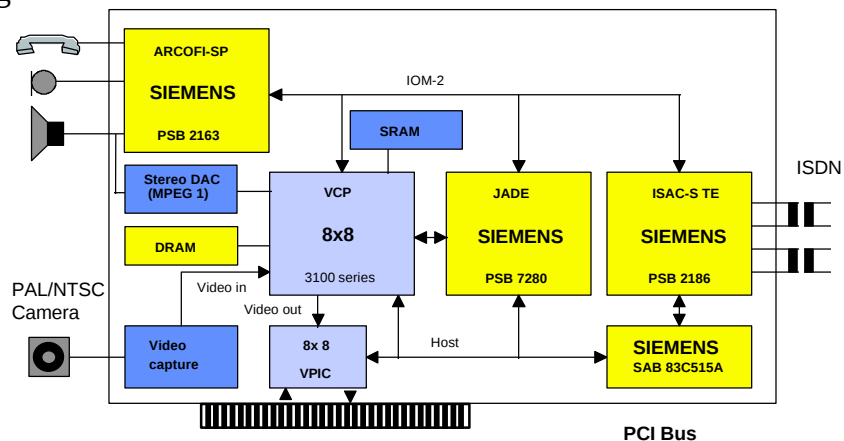
	<u>Date of issue/version</u>	<u>Type of material</u>
Preliminary Data Sheet V2.2	8/96	Copy
Preliminary Delta Sheet V2.2	8/96	Copy
Application Sheet V2.1	7/96	Copy
Technical Audit Report AU-531, volume 1	1/97	Copy
Ics for Video Communications	3/96	Copy
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Errata sheet V2.1-2.2	8/96	Copy
Codec Application Note V1.1-1.4	8/95	Copy
Video Ref. Board (DVC5) Package	1/96	Copy
Preliminary Version 1.1		

7. Development and support Tools

	<u>Availability</u>	<u>Ordering number</u>
Video Ref. Board SIPB 7280	available	Q67100-H6640
VISO Ref. Board SIPB 7285	available	Q67220-H1004

8. Applications

• Video Conferencing



• H320 Video Board with echo cancellation

