

Joint Audio Decoder-Encoder PSB 7238, JADE MM

The PSB 7238 Joint Audio Decoder Encoder Multimode (JADE MM) is a device which implements voice compression algorithms using the Low-Delay Code Excited Linear Prediction (LD-CELP) standard as defined in the ITU-T G.728 Recommendation, the Algebraic Code Excited Linear Prediction (ACELP) and the Multi-Pulse Maximum Likelihood Quantization (MP-MLQ) standard as defined in the ITU-T G.723 Recommendation, and for 7 kHz voice using the Sub-Band Coded Adaptive Differential PCM (SBC-ADPCM) coding according to the G. 722 Recommendation.

1. Potential application

- ISDN Videophones, Analog Videophones
- Video Conference Systems
- Data-over-voice and Voice-over-data terminals

2. Features:

- G.728 Compression/Decompression (16 kbps)
- G.723 Compression/Decompression (6.3, 5.3 kbps)
- G.722 Compression/Decompression for 7 kHz audio (64, 56, 48 kbps)
- G.711 Compression/Decompression (64 kbps)
- Digital sampling rate conversion (16kHz-8kHz) for G.722 audio with 8kHz Codec (bandwidth reduced to 3.4 kHz)
- Accepts/outputs uncompressed audio in 8-bit PCM A/μ law or 16-bit linear format
- Uncompressed/compressed audio switchable between different interface combination (IOM[®]/Serial Audio Interface, IOM/HOST, Host/Host)
- Inband controlled H.221/H223 oriented audio protocol.
- Outband controlled audio protocol with optimized data rate
- Stable reaction on interrupt handshake timing violations of e.g. a slow host (Windows PC)
- Two universal serial HDLC/transparent data controllers.
- 0.5 μm CMOS technology

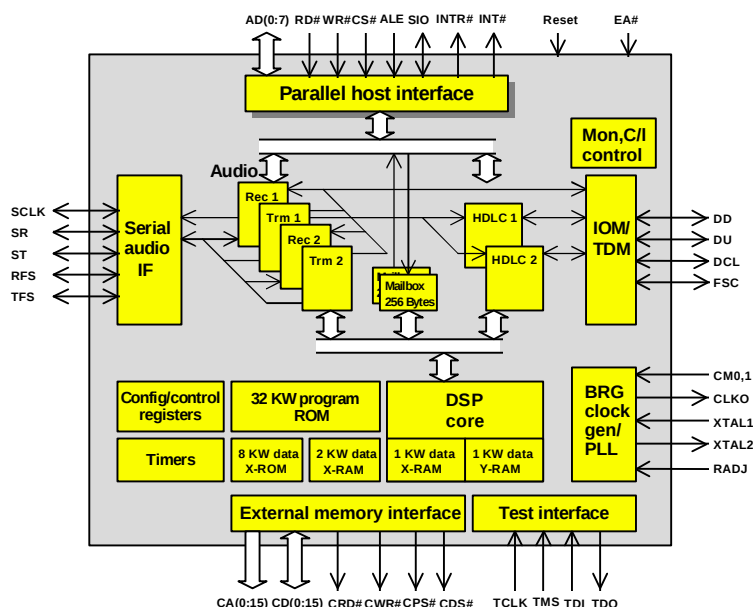
3. Packing

Type	Ordering Code	Package
PSB 7238 V1.2	Q67101-H6773	P-TQFP-100

4. Product status

Product	Step	Status	Changes
PSB 7238	V1.2	Production	--

5. Diagram



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

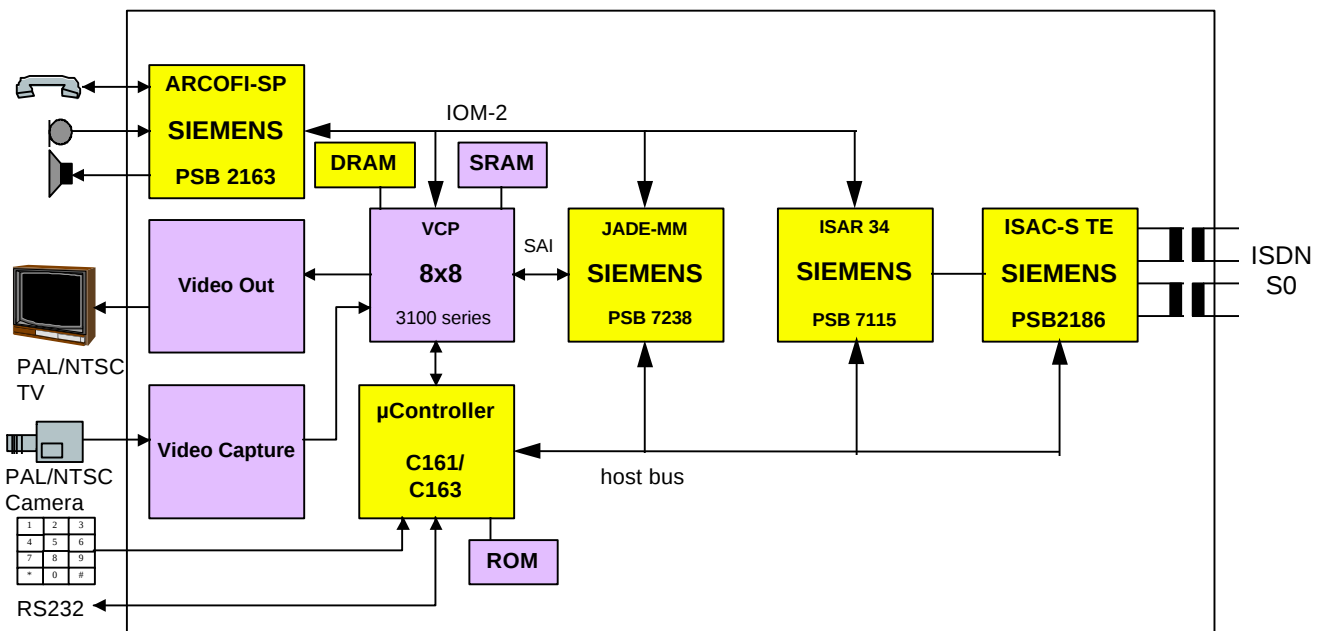
	<u>Date of issue/version</u>	<u>Type of material</u>
Errata Sheet V1.1-1.2	10/96	Copy
Preliminary Data Sheet V1.2	6/96	Copy
Preliminary Delta Sheet V1.2	6/96	Copy
Oscillator „external Circuit V1.1-1.2“	7/96	Copy
Preliminary Application Sheet	2/97	Copy
SRAM V1.1+1.2		

7. Development and support tools

	<u>Availability</u>	<u>Ordering number</u>
JADE AN Demo Board SIPB 7282	available	Q67220-H1003

8. Applications

- Low-cost desk-top stand-alone videophone



- Low-cost videophone as PCI card for PC

