

Siemens Answering Machine (SAM) Chipset PSB 2168 /PSB 4860 with Analog Front End PSB 4851

The SAM Chipset with world-class echo cancellation and voice processing technology and the analog front end PSB 4851 provide a flexible and modular approach for the design of digital answering machines with state-of-the-art features.

1. Potential application

Standalone digital answering machines
Analog feature phones
Cordless phone base station
Small office/Home office (SoHo) FAX/TAM machines
ISDN Terminals

Customers

manufacturers of analog phones and answering machines
 manufacturers of digital terminals
 PBX and communications gear manufacturers

2. Features and benefits:

- Selectable (3.3 kbit/s, 10.3 kbit/s) compression rates (provides 20 min of storage with 4 Mbit of memory)
- **Recompression** of stored messages to free up memory space *Endcustomer gets superb recording quality with HQ-mode*
- support of **emergency power operation** in conjunction with PSB 4851 Analog Front End *you can make phonecalls even in case of power failure*
- Flexible memory interface supports DRAM, ARAM, Flash *manufacturer can easily react to memory market fluctuations*
- unique **modular concept through building blocks** *very easy to write Software for the SAM*
- **IOM-2 Interface** provides access to industry-renowned portfolio of Telecom-Cs *easy connection to industry-standard ISAC-S*
- Detection and generation of DTMF; Call progress, **calling number** signals *calling-number ID usually requires an extra chip*
- Real time clock with extremely low power, tailcut, AGC
- support for **DECT Base Stations** *one-stop shopping even for the DECT Wireless solution*
- PSB 2168 downward compatible with PSB 4860 *family design*
- interface to Analog Front End PSB 4851+ Acoustic Echo Cancellation integrated in PSB 4860

Features of analog front end PSB 4851:

- supports low power emergency operation
- Dual-channel codec *perfect for DECT application with one channel for T/R and the other for basestation handset*
- direct connection of handset, μ -phone, loudspeaker *no glue-logic required*
- serial control interface for programming *requires no parallel port on microprocessor*

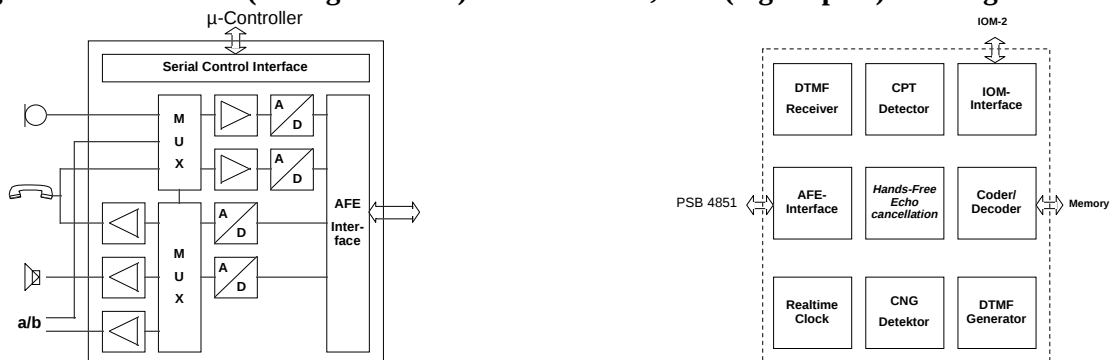
3. Packaging

Type	Ordering Code	Package
PSB 2168H V 2.1	Q67223-H1017	P-MQFP-80
PSB 4860H V 2.1	Q67223-H1028	P-MQFP-80
PSB 4851T V 1.1	Q67101-H6770	P-DSO-28

4. Product status

Produkt	Step	Status	Changes
PSB 2168, 4850, 4860	V2.1	available	
PSB 4851	V1.1	available	

5. Diagramm of PSB 4851 (analog frontend) and PSB 2168,4860 (digital part) building block



Documentation

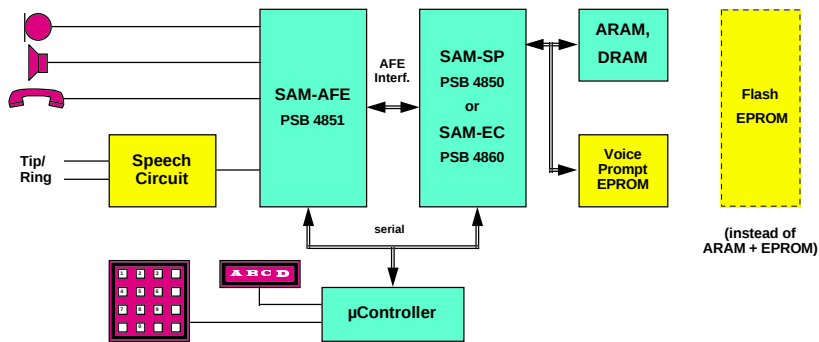
	<u>Date of issue/version</u>	<u>Type of material</u>
SAM Flyer "ICs for digital answering machines"	07/97	Color brochure

7. Development and support tools

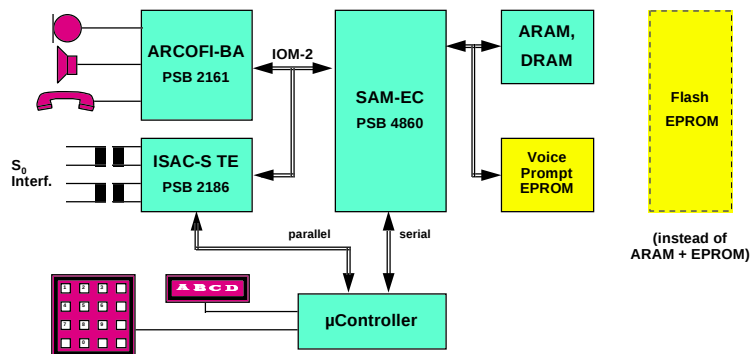
	<u>Availability</u>	<u>Ordering Number</u>
SAM Evaluation Board SIPB 4850	available	Q67220-H1012
SAM Reference Package SIPB 4870	available	Q67220-H1045
SAM Reference Software SIPB 4830	available	Q67220-H1055

8. Applications

Analog feature phone with hands-free or echo cancellation support



ISDN S-Terminal with acoustic echo cancellation



Analog Dect Base station

