4 DAP
Digital Audio Processor

Main features

- **Initialization and management of up to four independent digital voice channels with 64 kBit/s each**
- **Management of up to 250 different tracks**
- **Standard medium with 256 MB for 8 hours recording time, expandable up to 512 MB with 17 hours**
- **Green LED to indicate operation, red LED to indicate failures**
- **One green LED per voice channel to indicate recording or playback**

The digital audio processor 4 DAP is a part of the INDUSTRONIC communication and public address system with digital interfaces. It is used as digital voice memory to record and play back tones and texts in various combinations.

Safety

The digital audio processor is especially significant in systems which are used for emergency purposes. It meets highest safety requirements by complying with the standard DIN EN 60849 "Sound Systems for Emergency Purposes".

Voice channel

A voice channel allows the transmission of voice and tone information from the digital audio processor to the connected peripheral units.

Depending on the digital audio processor type up to four digital voice channels per 4 DAP can be operated simultaneously and independently from each other. Within an INDUSTRONIC communication and public address system five digital audio processors can be operated at the same time. So up to 20 simultaneous voice channels are possible.

Editing of audio files

The text / tone sequences are stored on an exchangeable compact flash card with a maximum of 250 different tracks. The following tools can be used to edit the audio files:

- Any sound editor for UNIX or Windows operating systems
- The especially designed INDUSTRONIC programming package for Windows operating systems
- A digital INDUSTRONIC intercom station

Further information

The output level of the 4 DAP can be adjusted. Furthermore, the module is equipped with a service interface. The 4 DAP is supplied in two versions as 19" slide-in unit with either 3 RU or 6 RU.

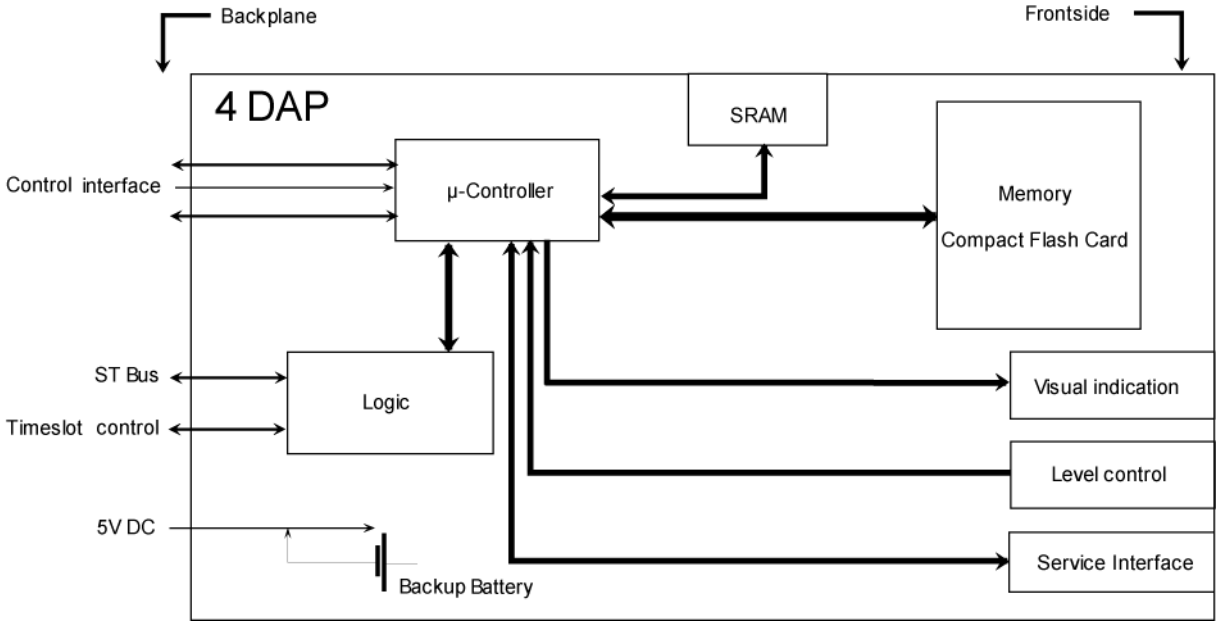

Figure 1: Block diagram 4 DAP

Additional features

- Failure indication for each voice channel
- RS232 service interface
- Back-up battery in case of power loss
- Watchdog reset
- Integrated in the failure management of the INDUSTRONIC communication and public address system

Type	Voicce channels	Max. Numbers of Tracks	Dimensions	Playtime per track
4 DAP 01/1	1	250	6 RU	Depending on compact flash memory size
4 DAP 01/2	2	250	6 RU	Depending on compact flash memory size
4 DAP 01/3	3	250	6 RU	Depending on compact flash memory size
4 DAP 01/4	4	250	6 RU	Depending on compact flash memory size
4 DAP 31/0	1	The first 12	3 RU	Max. 25 seconds
4 DAP 31/1	1	250	3 RU	Depending on compact flash memory size
4 DAP 31/2	2	250	3 RU	Depending on compact flash memory size
4 DAP 31/3	3	250	3 RU	Depending on compact flash memory size
4 DAP 31/4	4	250	3 RU	Depending on compact flash memory size

Mechanical data	• Height x depth (4 DAP 01/1 to 4)	233 mm x 160 mm (9 ¼“ x 6 ¼“)
	• Dimensions of the front plate (4 DAP 01/1 to 4)	6 RU, 4 HP
	• Height x depth (4 DAP 31/0 to 4)	100 mm x 160 mm (4“ x 6 ¼“)
	• Dimensions of the front plate (4 DAP 31/0 to 4)	3 RU, 4 HP
	• Weight	ca. 0.4 kg (approx. 1 lb)
Electrical data	• Operating voltage of the control electronics	5 VDC
	• Current consumption	400 mA
	• Tone and text memory	Compact flash card, 64 MB to max. 512 MB
	• Disc format (256 Mbyte)	16384 Byte/Cluster, FAT16
	• File format	A – LAW, 8 – Bit, Mono
	• Sampling rate	8 kHz
	• Number of tracks	max. 250
	• Backup battery	Li-$SOCl_2$, 3,6 V 2,25 Ah
	• Self-discharge rate per year	<1%
	• Battery durability	More than 10 years
	• System level	-9 dB to +6 dB
Standards and environmental requirements	• Ambient temperature during operation	-5 °C to +50 °C (23 °F to 122 °F)
	• Humidity (non-condensing)	Max. 95 %
	• EMC	IEC / EN 61000-6-2 IEC / EN 61000-6-4

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Subject to technical modifications