## SPQ - Speaker Processor Card for AX32 and Penta 720



The SPQ – Speaker Processor Card for AX32 and the 720-610 Card for Penta 720, provides 128 filter channels with a total of 1,024 filters and delay control on all channels. The card is mounted in the 8 slot modular card section.

The SPQ Card provides filters for speaker equalization and bass management with characteristics and channel layouts configured and managed via the DADman control software.

## **Key features:**

- 128 channels @ 48 kHz
- 1,024 filters, with the Parametric EQ, High Pass, Low Pass and Shelving characteristics
- Delay up-to 800 ms per channel
- Total processing latency 7 samples
- Native filters for all sample rates from 44,1 kHz to 384 kHz







Penta 720 and AX32 frame



## **Specifications**

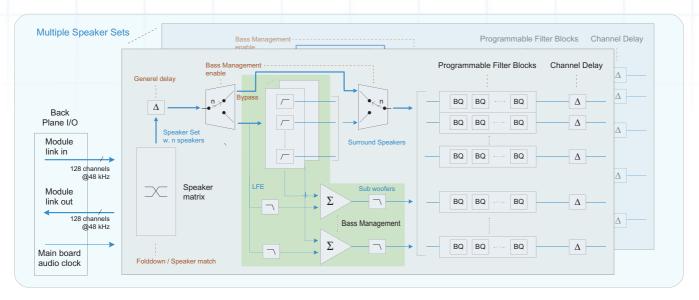
## **Description**

The SPQ – Speaker Processor Card is mounted in the 8 slot card section of the AX32 or Penta 720 base unit. Normally one card is installed, but if more channels are needed more cards can be installed. The SPQ card does not have any I/O connectivity as it is a pure processing card. The SPQ Card provides filters for channel-based speaker EQ and well as Bass Management.

The SPQ – Speaker Processor Card can be configured to various different filter characteristics and channel layouts via the DADman control software and is all integrated and easily managed by the Pro | Mon monitor control section in DADman. The SPQ Card supports all the system sample rates and will reconfigure automatically and fast when sample rates are changed, with equal filters and delay independent of the sample rate. Delay can be set individually per channel as well as generally for a whole set of speakers to also accommodate lib-sync applications.

The SPQ setting are stored in the Pro | Mon monitor profile in DADman and speaker settings can be recalled separately from stored monitor profiles, for a fast change of parameters. Measurement of the speaker curves and frequency responses have to be done using a separate measurement program, as this is not a part of the SPQ and Pro | Mon functionality.

The block diagram of the SPQ Speaker Processor Card is shown below.



pass
h pass
S
352,8 and
ted)
channel,
nples total
alligned