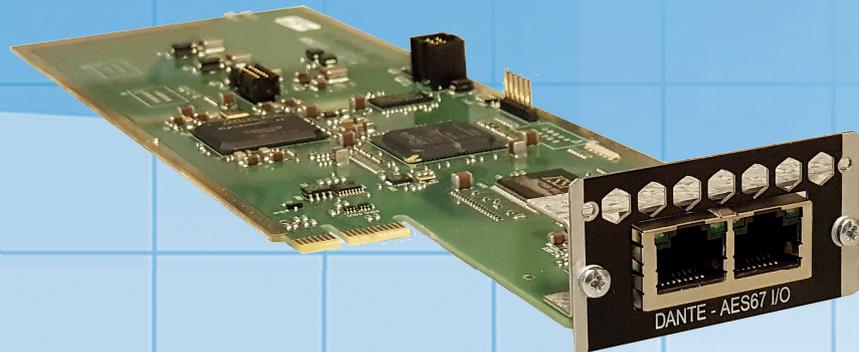


128-Channel Dante/AES67 Card w/ SRC for AX32 and Penta 720



The 128-channel Dante I/O Card for AX32 and the 720-260A Card for Penta 720 is capable of interfacing 128 bi-directional channels of Dante or AES67 low-latency, real-time IP Ethernet audio. Up to 8 cards can be installed for a total capacity of 1,024 additional channels

The Dante card has onboard sample rate conversion for both input and output signals, enabling separation between the clock synchronization of the AX32 and other Dante audio devices interfacing the expansion card.

Key features:

- Sample rates 44,1 to 192 kHz
- 128 channels @ 48 kHz up to 1,024 channels
- Dual Ethernet connectivity, switched or redundant
- Bi-directional sample rate conversion
- Bridging between networks
- AES67 compatible



Penta 720 and AX32 frame



Specifications

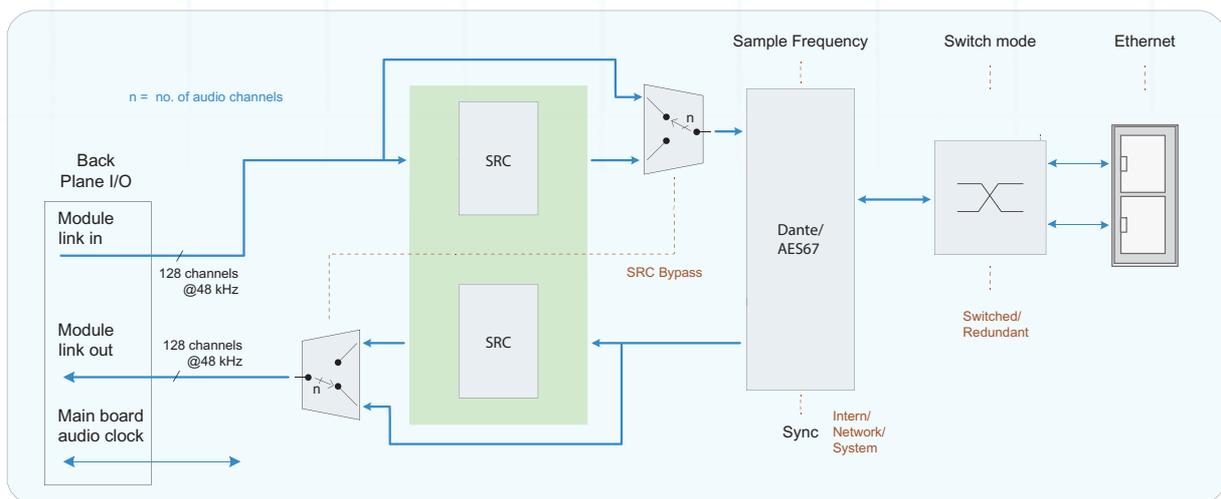
Description

The 128-channel Dante I/O Card is mounted in the 8-slot card section of the AX32 or Penta 720 base unit. One or more cards can be installed. The available channels from the Dante card(s) will appear as I/O resources in the matrix of the AX32 and are managed via the DADman software equally to all other I/O channels in the AX32.

The Dante card can operate either as a single 128x128 channel interface with a switch for the two Ethernet connectors or redundantly, where the two Ethernet connectors are connected to different networks each carrying 128x128 channels. If more cards are installed, each card can be connected to a different network or more cards can be connected to the same network via an external Ethernet switch or by bridging the network between the cards when operating in non-redundant mode.

The Dante card can operate in Dante mode or AES67 mode with support for discovery via SAP. In Dante mode, Dante Domain Manager (DDM) is supported for enhanced network management functionality. Configuration of the card is managed via DADman.

The block diagram of the Dante Card is shown below.



General

No. of channels	128 channels @ 48 kHz, 64 channels @ 96 kHz, 32 channels @ 192 kHz
No. of network ports	Dual Ethernet, switched or redundant
AoIP format	Dante and AES67 with SAP discovery
Network latency	100 ns to 10 milliseconds
Power consumption	4,5 W
Connector	2xRJ45

Audio processing

Sample rate	44,1, 48, 88,2, 96, 176,4 and 192 kHz. no. of channels scales with sample frequency. i.e. 32 channels@192 kHz
Sample rate conversion (SRC)	128 channels bi-directional
Dynamic Range SRC	> 125 dB,
SRC processing	64 bit floating point
Audio processing delay	1 sample on the card

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