

ARIA OG-AUD4-DANTE • 12G SDI DANTE/AES/MADI Embed and De-Embed Functions with Frame Sync



Cobalt Digital introduces the ARIA OG-AUD4-DANTE — a DANTE® card in openGear® form factor. The COBALT ARIA OG-AUD4-DANTE is a quad path unit with 12G SDI and DANTE/AES/MADI which can simultaneously embed and de-embed audio between SDI, DANTE, AES and MADI with flexible routing and mixing. This card also includes a built-in frame sync.

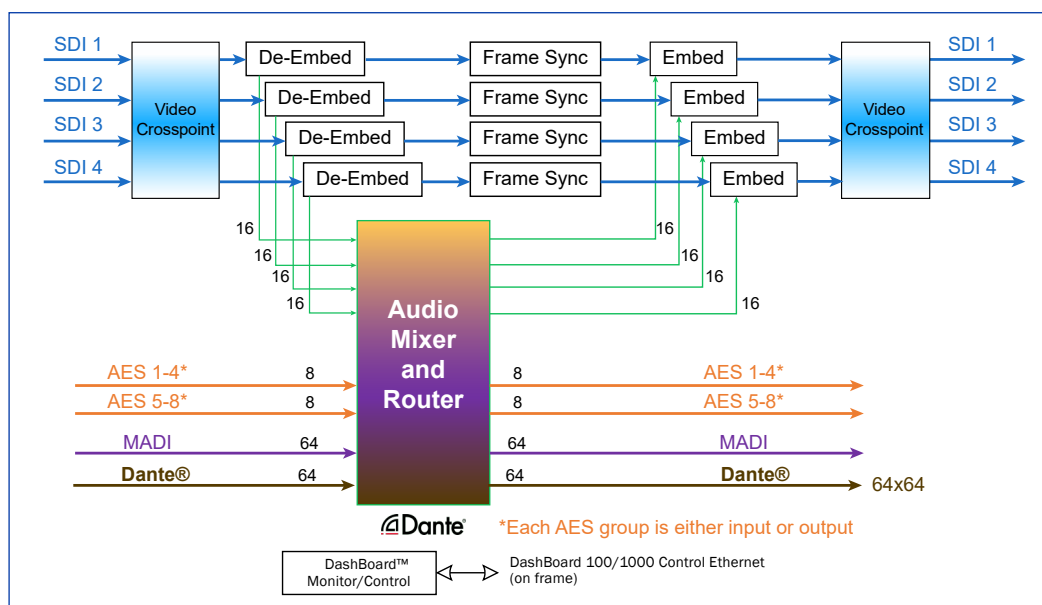
This openGear card features two gigabit Ethernet ports, and a 64x64 DANTE channel matrix mixer.

The Cobalt ARIA OG-AUD2-DANTE — High-density, compact openGear card-based solution, allows multiple devices to be installed in a single frame for up to 40 paths per 20-slot frame, as well as offering the standard features of redundant hot-swappable power supplies and hot-swappable cards.

FEATURES

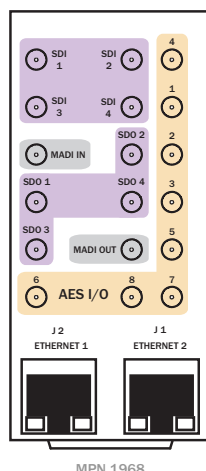
(4) SDI Inputs and Outputs, capable of up to 12G-SDI operation	Full routing and mixing between SDI, DANTE, MADI, and AES
(1) MADI Input and (1) MADI Output	SDI Crosspoints - Connect any Input to any Processing Path and any Processing Path to any Output.
(8) AES inputs/outputs – each block of 4 ports is software-configurable as Input or Output	(2) Gigabit Ethernet ports for redundant DANTE operation
Simultaneous embedding and de-embedding	DANTE matrix size: 64x64
DashBoard™ Ethernet control & set up	Five year warranty

BLOCK DIAGRAM



ARIA OG-AUD4-DANTE • 12G SDI DANTE/AES/MADI Embed and De-Embed Functions with Frame Sync

REAR I/O MODULE



RM20-OG-AUD4-DANTE-A-DIN-HDBNC (MPN 1968)

20-Slot Frame Rear I/O Module (Standard-Width)

- (4) 12G/6G/3G/1.5G/SD-SDI Inputs
- (4) 12G/6G/3G/1.5G/SD-SDI Processed Outputs
- (8) AES I/O
- (1) MADI Input
- (1) MADI Output
- (2) 1G Ethernet ports

*All coaxial connectors are HDBNC

Note: Mates to card in an odd-numbered frame slot.

SPECIFICATIONS

12G/6G/3G/1.5G/SD-SDI Input/Outputs

- (4) 75Ω inputs (max)
- (4) 75Ω outputs (max)
- Supports resolutions of: NTSC, PAL, 720p, 1080i, 1080psf, 1080p, and 2160p
- Supports frame rate of: 23.98, 24, 25, 29.97, 30, 50, 59.94, and 60
- SDI Formats Supported: SMPTE ST2082-1, 10, 424M, 292M, SMPTE 259M-C. All inputs/outputs 12G compliant.

MADI Input/Outputs

- (1) 75Ω MADI input
- (1) 75Ω MADI output

AES Input/Outputs

- (8) 75Ω AES Input/Outputs. Each block of four ports is software-configurable as Input or Output.

1G Ethernet Ports

- (2) 1G Ethernet ports

Return Loss:

- > 5 dB up to 12 GHz
- > 7 dB up to 6 GHz
- > 10 dB up to 3 GHz
- > 15 dB up to 1.485 GHz

Input Cable Length:

- 45m Belden 1694A cable at 11.88 Gbps
- 120m Belden 1694A cable at 2.97 Gbps
- 240m Belden 1694A cable at 1.485 Gbps
- 400m Belden 1694A cable at 270 Mbps

Power Output: < 35 Watts

Output Signal Level: 800 mV ± 10%

DC Offset: 0 V ± 50 mV

Rise and Fall Time @ 11.88 Gbps: < 45 ps

Alignment Jitter (12G/3G/1.5G/SD):

< 0.3/0.3/0.2/0.2 UI

Frame Sync Audio/Video Delay

- Max offset: 20 frames
- Latency (min): 1 frame

User Audio Delay Offset from Video

- Bulk delay control: -33 msec to +3000 msec.
- Per-channel delay controls: -800 msec to +800 msec

Frame Reference Input

- (2) reference from frame bus. SMPTE 170M/318M "Black Burst", SMPTE 274M/296M "Tri-Level"

Frame Loading

- (Max. recommended number of ARIA OG-AUD4-DANTE cards supported per Frame Model)
 - HPF-9000 Frame: (5) cards
 - HPF-9500 Frame: (5) cards
 - HPF-MAX Frame: (10) cards
 - OG3 Frame: (5) cards
 - oGx Frame: (7) cards

ARIA OG-AUD4-DANTE • 12G SDI DANTE/AES/MADI Embed and De-Embed Functions with Frame Sync

ORDERING INFORMATION

ARIA OG-AUD4-DANTE 12G SDI DANTE/AES/MADI Embed and De-Embed Functions with Frame Sync openGear card

RM20-OG-AUD4-DANTE 20-Slot Frame Rear I/O Module (Standard-Width) (4) 12G/6G/3G/1.5G/SD-SDI Inputs, (4) 12G/6G/3G/1.5G/SD-SDI Processed Outputs (8) AES I/O, (1) MADI Input, (1) MADI Output, (2) 1G Ethernet ports (All coaxial connectors HD-BNC.) (Note: Mates to card in an odd-numbered frame slot.)