

SONIFEX

AVN-DIO10 - DIO20

Catalogue



AVN-DIO10 Dante® to 3G/HD/SD-SDI Embedder/De-Embedder



Category: Dante Audio Interfaces.

Product Function: Dante® to 3G/HD/SD-SDI Embedder/De-Embedder.

Typical Applications: These simple plug and play audio interfaces provide a convenient and elegant method of connecting legacy analogue and digital

audio equipment to the Dante AoIP audio network.

Features:

- 1 x 3G/HD/SD-SDI input.
- 1 x relocked 3G/HD/SD-SDI output.
- Dual redundant Primary and Secondary Dante network ports using Neutrik EtherCon®; Ethernet connectors.
- Powered via PoE (Power over Ethernet) with PoE dual redundancy.
- Fully Dante compliant device.
- AES67 compatible.
- Dante Domain Manager compliant.
- Web interface for configuration.
- Clock, SDI Lock, PoE and Sync LEDs.
- DIPSwitch selection of embed channel pairs.
- Overwrite or insert into existing SDI audio groups.
- Test tones available on embedded outputs.
- SDI audio sample rate support at 48kHz.

- All available Dante sample rates supported.
- Sample rate conversion of audio between Dante and SDI.
- Dante clock domain can be optionally synchronised from the SDI clock.
- Supplied with belt-clip, shoulder strap hooks (but not the strap) and underdesk mounting plate.
- 3 x units rackmount in the AVN-DIORK.



The easiest way to connect legacy SDI equipment to the Dante® network, the AVN-DIO10 can be used for simultaneous embedding and de-embedding. This simple plug and play audio/video interface provides a convenient and elegant method of connecting legacy 3G/HD/SD-SDI equipment to the Dante® AoIP audio network.

The AVN-DIO10 takes an SDI feed, de-embeds the 16 audio channels and places them on channels 1-16 of the Dante network, mapped using Dante Controller. It simultaneously takes the 16 input channels mapped to the device on Dante Controller and re-embeds them onto the SDI output.

Switches on the unit allow embedding of Dante channels onto the SDI output per channel pair and there are two modes of operation: Insert Mode enabled allows embedding to overwrite existing SDI audio selectively per channel pair. Insert Mode disabled clears any incoming audio channels on the SDI output and then allows

selective embedding onto the SDI output per channel pair.

A Test Tone Mode allows 1kHz, 2kHz, 3kHz and 4kHz signals to be output on channels 1 to 4 respectively, for any group where embedding is enabled. This is so that downstream SDI audio outputs can be tested without the need of Dante sources.

It's powered using Power over Ethernet (PoE), using Neutrik EtherCON connectors, with primary and secondary ports for power and data redundancy. The AVN-DIO10 uses the latest Audinate Dante® chipsets so is AES67 and Dante Domain Manager® compliant.

There are front panel LEDs to indicate network clock status, SDI lock status, AoIP Primary and AoIP Secondary link status, PoE Primary power and PoE Secondary power active.

A web interface is available for firmware updates, status information and network settings.

The AVN-DIO10 is supplied with a belt-clip, shoulder strap hooks (but not the strap) and an underdesk mounting plate. Up to 3 of the AVN-DIO10 units can be rackmount in the 1U AVN-DIORK.

- 1 x 3G/HD/SD-SDI input.
- 1 x reclocked 3G/HD/SD-SDI output.
- Dual redundant Primary and Secondary Dante network ports using Neutrik EtherCon®; Ethernet connectors.
- Powered via PoE (Power over Ethernet) with PoE dual redundancy.
- Fully Dante compliant device.
- AES67 compatible.
- Dante Domain Manager compliant.
- Web interface for configuration.

- Clock, SDI Lock, PoE and Sync LEDs.
- DIPSwitch selection of embed channel pairs.
- Overwrite or insert into existing SDI audio groups.
- Test tones available on embedded outputs.
- SDI audio sample rate support at 48kHz.
- All available Dante sample rates supported.
- Sample rate conversion of audio between Dante and SDI.
- Dante clock domain can be optionally synchronised from the SDI clock.
- Supplied with belt-clip, shoulder strap hooks (but not the strap) and underdesk mounting plate.
- 3 x units rackmount in the AVN-DIORK.

Technical Specification For AVN-DIO10

Parameter SDI Input:	
Input Impedance:	75Ω Unbalanced
SDI Supported Standards:	270Mbps SMPTE-259M-C (SD)
SDI Supported Standards:	1.485 or 1.4835Gbps SMPTE-292M (HD)
SDI Supported Standards:	2.97 or 2.967Gbps SMPTE-424M (3G)
Supported Video Formats:	525/59.94 (SMPTE-125M)
Supported Video Formats:	625/50 (ITU-R BT.656)
Supported Video Formats:	720p/23.98, 24, 25, 29.97, 30, 50, 59.94, 60 (SMPTE-296M)
Supported Video Formats:	1035i/59.94, 60 (SMPTE-260M)
Supported Video Formats:	1080i/50, 59.94, 60 (SMPTE-274M)
Supported Video Formats:	1080p/23.98, 24, 25, 50, 59.94, 60 (SMPTE-274M)
Supported Video Formats:	1080p5F/23.98, 24, 25, 29.97, 30 (RP-211)
Supported Video Formats:	1080i/50 (SMPTE-295M)
Supported Video Formats:	1080p/50 (SMPTE-295M)
Embedded Audio:	48kHz, synchronous
Embedded Audio:	SMPTE-272M-ABC
Embedded Audio:	SMPTE-299M
Supported Image Mapping:	SMPTE-425M-AB

Parameter SDI Output:	
Output Impedance:	75Ω Unbalanced
Alignment Jitter:	<0.2UI
Output Level:	800mV ±10%
Return Loss:	<15dB @ 1.5GHz
SDI Supported Standards:	Output follows input
Supported Video Formats:	Output follows input
Embedded Audio:	48kHz, synchronous
Embedded Audio:	SMPTE-272M-C
Embedded Audio:	SMPTE-299M

Network and AoIP	
AoIP Standard:	Dante
Channels:	16 receive, 16 transmit
Flows:	16 receive, 16 transmit
Sample Rates:	44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
Encoding:	PCM 16, PCM 24, PCM 32
AES67 Support	Yes
Connectivity:	2 x etherCON (RJ45 compatible)
Speed:	1Gbps or 100Mbps
Network Modes:	Switched or redundant
Dante Domain Manager Ready:	Yes
Clock Source:	Internal (PTP Leader), Network PTP Leader or from SDI input (Sync to External)

PoE Power	
Standard	802.3af
Redundancy	Yes
Class	0
PD Power Range	0.44 W to 12.94 W
Typical PSE Power Usage	6 W
Max PSE Usage	15.4 W

Equipment Type:	
AVN-DIO10:	Dante to 3G/HD/SD-SDI Embedder/De-Embedder

Physical Specification:	
Dimensions (Raw):	14.0cm (W) x 13.6cm (D) x 4.2cm (H) 5.5" (W) x 5.4" (D) x 1.7" (H)
Weight:	Nett: 0.5kg Gross: 0.3kg Nett: 1.1lbs Gross: 0.7lbs

Accessories:	
AVN-DIORK	AVN-DIO 1U 19" Rack Kit (5 x Small DIO or 3 x Large DIO)



AVN-DIO10 Front View.



AVN-DIO10 Rear View.





AVN-DIO12 Dual Microphone Input to Dante® with Mic Gain Converter



Category: Dante Audio Interfaces.

Product Function: Dante® to 3G/HD/SD-SDI Embedder/De-Embedder.

Typical Applications: These simple plug and play audio interfaces provide a convenient and elegant method of connecting legacy analogue and digital

audio equipment to the Dante AoIP audio network.

Features:

- Neutrik EtherCon® Ethernet connection.
- Single turn pots setting fine mic gain (0dB – 36dB).
- Coarse mic gain switches (+20db/+50dB).
- High pass filter on/off switches.
- Ultra-high quality, wide dynamic range A/D conversion.

- Phantom power on/off switches.
- Phantom power LED indicators.
- Level LED indicators.
- Fully Dante compliant device.
- AES67 compatible.
- Dante Domain Manager compliant.
- Powered via PoE (Power over Ethernet).
- Clock, PoE and Sync LEDs.
- 3 x units rackmount in the AVN-DIORK



The AVN-DIO12 is a dual microphone input to Dante® converter with adjustable mic gain in the Sonifex DIO range of Dante® input/output devices. It's effectively 2 x AVN-DIO09 units in a single chassis, still offering A/D circuitry with a world-class E.I.N. of 129dB.

It features 2 balanced analogue XLR inputs and one Neutrik etherCON connector for direct connection to a Dante® AoIP network. Each mic has coarse and fine gain controls, high pass filter, phantom power & tri-color level LED and can be routed via Dante Controller to any Dante receiver.

It's powered using Power over Ethernet (PoE), using a Neutrik etherCON connector for power and data redundancy. The AVN-DIO12 uses the latest Audinate Dante chipset so is AES67 and Dante Domain Manager compliant.

Gain Adjustment

The AVN-DIO12 has coarse and fine mic gain for each microphone input. The coarse

gain is set using the toggle switch, which provides 20dB/50dB of gain. The fine gain can be set using a trimmer adjustment tool, or small flat blade screwdriver, and adds between 0dB and 36dB of additional gain.

High Pass Filter

Each microphone input has an on/off toggle switch which turns the high pass filter on or off. When enabled, it acts on frequencies below 125Hz at a roll-off of 6dB/octave.

Phantom Power

Phantom power is enabled/disabled via a toggle switch on the front panel for each



microphone input. When enabled, a 48V DC supply is provided to power an appropriate microphone. The red LED next to each input will illuminate to indicate phantom power is enabled.

Audio Level LED

To help you set the mic gain, a level LED is provided on the front panel for each microphone input to display the audio level being sent to the Dante network. The indicator thresholds are as follows:

Off: Level is under -38dBFS (-20dBu)

Green: Level is between -38dBFS (-20dBu) and -18dBFS (0dBu)

Amber: Level is between -18dBFS (0dBu) and -10dBFS (+8dBu)

Red: Level is above -10dBFS (+8dBu)

Note: When using a phantom powered microphone, it may be necessary to earth the unit using the rear panel earth tag to eliminate mains hum.

- 2 x balanced microphone input on XLR sockets with latch locks.
- Neutrik EtherCon® Ethernet connection.
- Single turn pots setting fine mic gain (0dB – 36dB).
- Coarse mic gain switches (+20dB/+50dB).
- High pass filter on/off switches.
- Ultra-high quality, wide dynamic range A/D conversion.
- Phantom power on/off switches.
- Phantom power LED indicators.
- Level LED indicators.
- Fully Dante compliant device.
- AES67 compatible.
- Dante Domain Manager compliant.
- Powered via PoE (Power over Ethernet).
- Clock, PoE and Sync LEDs.
- 3 x units rackmount in the AVN-DIORK.

Technical Specification For AVN-DIO12

Microphone XLR Input Pin-out	
Pin	Function
1	Chassis Ground
2	Input Phase
3	Input Non Phase

Microphone Input - XLR	
Input Impedance:	2.2kΩ balanced
Maximum Input Level:	-68dBu (max gain) to -8dBu (min gain)
Gain:	Adjustable 20dB to 86dB
Frequency Response:	20Hz to 20kHz, +0/-0.5dB (ref 1kHz)
High Pass Filter Response:	Fc = 125Hz @ 6dB per octave
THD+N:	<0.01%, -32dBu input, 40dB gain, 20Hz to 20kHz, 20kHz BW
E.I.N.:	129dBu, 20kHz BW, max gain, Rs=200Ω
Common Mode Rejection:	>60dB @ 1kHz
Phantom Power:	+48V ± 4V

Network and AoIP	
AoIP Standard:	Dante
Channels:	2 transmit
Flows:	2 transmit
Sample Rates:	44.1kHz, 48kHz, 88.2kHz, 96kHz
Encoding:	PCM 16, PCM 24, PCM 32
AES67 Support	Yes
Connectivity:	EtherCON (RJ45 compatible)
Speed:	100Mbps
Dante Domain Manager Ready:	Yes
Clock Source:	Internal (PTP Leader) or Network PTP Leader

PoE Power	
Standard	802.3af

Class	0
PD Power Range	0.44 W to 12.94 W
Typical PSE Power Usage	TBD
Max PSE Power Usage	15.4 W

Equipment Type	
AVN-DIO12:	Dual Microphone Input to Dante® with Mic Gain

Physical Specification	
Dimensions (Raw):	14.0cm (W) x 13.6cm (D) x 4.2cm (H)
5.5" (W) x 5.4" (D) x 1.7" (H)	
Dimensions (Boxed):	17.8cm (W) x 17cm (D) x 5.6cm (H)
7.0" (W) x 6.7" (D) x 2.2" (H)	
Weight:	Nett: 0.5kg Gross: 0.7kg Nett: 1.1lbs Gross: 1.4lbs

Accessories	
AVN-DIOBT	
AVN-DIOMT	
AVN-DIORK	
AVN-DIO Large Unit Belt Clip Kit	
AVN-DIO Large Unit Underdesk Mount	
AVN-DIO 1U 19" Rack Kit (5 x Small DIO or 3 x Large DIO)	





AVN-DIO14 Dante® to XLR Analogue Stereo Input & Output



Typical Applications: These simple plug and play audio interfaces provide a convenient and elegant method of connecting legacy analogue and digital audio equipment to the Dante AoIP audio network.

Category: Dante Audio Interfaces.

Product Function: Dante® to XLR Analogue Stereo Input & Output

The easiest way to connect legacy SDI equipment to the Dante® network, the AVN-DIO10 can be used for simultaneous embedding and de-embedding. This simple plug and play audio/video interface provides a convenient and elegant method of connecting legacy 3G/HD/SD-SDI equipment to the Dante® AoIP audio network.

The front panel provides a global 0dBFS line-up which can be set to +12dBu, +18dBu or +24dBu to meet your specific requirement via the front panel recessed toggle switch. There are also front panel LEDs to indicate network clock status, AoIP link status and PoE power active.

It's powered using Power over Ethernet (PoE), using a Neutrik etherCON connector. The AVN-DIO14 uses the latest Audinate Dante chipset so is AES67 and Dante Domain Manager compliant.



Technical Specification For AVN-DIO14

Analogue XLR Input / Output Pin-out

Pin	Function
1	Chassis Ground
2	Phase
3	Non Phase

Line Inputs - XLR

Input Impedance:	5kΩ Unbalanced
0dBFS Line-Up:	Selectable +12/+18/+24dBu
Frequency Response:	20Hz to 20kHz, +0/-0.2dB (ref 1kHz)
THD+N:	<-118dBFS, -12dBu (+18dBu=0dBFS mode), 20Hz to 20kHz, 20kHz BW
Dynamic Range	120dB, 20kHz BW, Rs=200Ω
Cross Talk	<-110dB
Common Mode Rejection	>60dB @ 1kHz

Line Outputs - XLR

Output Impedance:	<200Ω balanced
0dBFS Line-Up:	Selectable +12/+18/+24dBu
Frequency Response:	20Hz to 20kHz, +0/-0.5dB (ref 1kHz)
THD+N:	<-100dBu, -30dBFS, 20Hz to 20kHz, 20kHz BW
Dynamic Range	120dB, 20kHz BW
Cross Talk	<-110dB

Network and AoIP

AoIP Standard:	Dante
Channels:	2 transmit, 2 receive
Flows:	2 transmit, 2 receive
Sample Rates:	44.1kHz, 48kHz, 88.2kHz, 96kHz
Encoding:	PCM 16, PCM 24, PCM 32
AES67 Support	Yes
Connectivity:	etherCON (RJ45 compatible)

Speed:	100Mbps
Dante Domain Manager Ready:	Yes
Clock Source:	Internal (PTP Leader) or Network PTP Leader

PoE Power

Standard	802.3af
Class	0
PD Power Range	0.44 W to 12.94 W
Typical PSE Power Usage	6 W
Max PSE Usage	15.4 W

Equipment Type

AVN-DIO14:	Dante® to XLR Analogue Stereo Input & Output converter
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Physical Specification

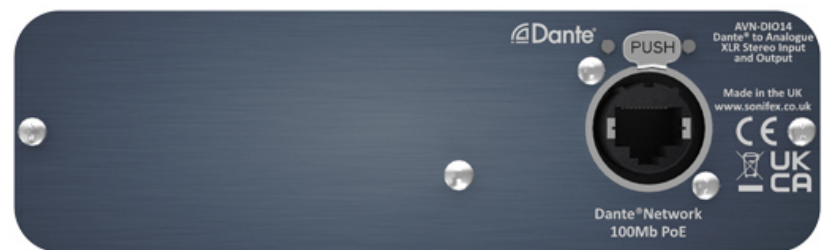
Dimensions (Raw):	14.0cm (W) x 13.6cm (D) x 4.2cm (H)
	5.5" (W) x 5.4" (D) x 1.7" (H)
Dimensions (Boxed):	17.8cm (W) x 17cm (D) x 5.6cm (H)
	7.0" (W) x 6.7" (D) x 2.2" (H)
Weight:	Nett: 0.42kg Gross: 0.56kg
	Nett: 0.95lbs Gross: 1.25lbs

Accessories

AVN-DIOBT	AVN-DIO Large Unit Belt Clip Kit
AVN-DIOMT	AVN-DIO Large Unit Underdesk Mount
AVN-DIORK	AVN-DIO 1U 19" Rack Kit (5 x Small DIO or 3 x Large DIO)



AVN-DIO14 Front View.



AVN-DIO14 Rear View.



AVN-DIO15 4 Analogue XLR Inputs to Dante®



Typical Applications: These simple plug and play audio interfaces provide a convenient and elegant method of connecting legacy analogue and digital audio equipment to the Dante AoIP audio network.

Category: Dante Audio Interfaces.

Product Function: 4 Analogue XLR Inputs to Dante®

The AVN-DIO15 is a 4 analogue XLR input to Dante converter in the Sonifex DIO range of Dante input/output devices. It features four balanced analogue XLR inputs and one Neutrik etherCON connector for direct connection to a Dante AoIP network.

The front panel provides a global 0dBFS line-up which can be set to +12dBu, +18dBu or +24dBu to meet your specific requirement via the front panel recessed toggle switch. There are also front panel LEDs to indicate network clock status, AoIP link status and PoE power active.

It's powered using Power over Ethernet (PoE), using a Neutrik etherCON connector. The AVN-DIO15 uses the latest Audinate Dante chipset so is AES67 and Dante Domain Manager compliant.



Technical Specification For AVN-DIO15

Analogue XLR Input Pin-out

Pin	Function
1	Chassis Ground
2	Phase
3	Non Phase

Line Inputs - XLR

Input Impedance:	5kΩ balanced
0dBFS Line-Up:	Selectable +12/+18/+24dBu
Frequency Response:	20Hz to 20kHz, +0/-0.2dB (ref 1kHz)
THD+N:	<-118dBFS, -12dBu (+18dBu=0dBFS mode), 20Hz to 20kHz, 20kHz BW
Dynamic Range	120dB, 20kHz BW, Rs=200Ω
Cross Talk	<-110dB
Common Mode Rejection	>60dB @ 1kHz

Network and AoIP

AoIP Standard:	Dante
Channels:	4 transmit
Flows:	2 transmit
Sample Rates:	44.1kHz, 48kHz, 88.2kHz, 96kHz
Encoding:	PCM 16, PCM 24, PCM 32
AES67 Support	Yes
Connectivity:	etherCON (RJ45 compatible)
Speed:	100Mbps
Dante Domain Manager Ready:	Yes
Clock Source:	Internal (PTP Leader), Network PTP Leader or from SDI input (Sync to External)

PoE Power

Standard	802.3af
Class	0
PD Power Range	0.44 W to 12.94 W

Typical PSE Power Usage 6 W

Max PSE Usage	15.4 W
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Equipment Type

AVN-DIO15:	4 Analogue XLR Inputs to Dante®
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Physical Specification

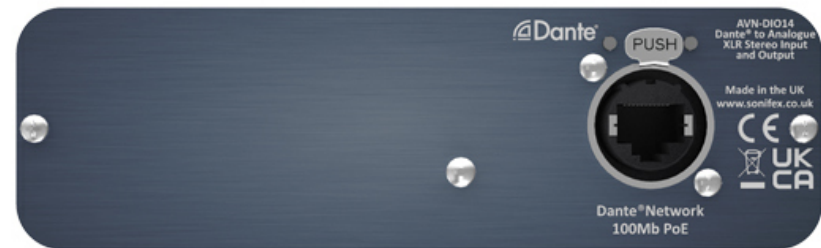
Dimensions (Raw):	14.0cm (W) x 13.6cm (D) x 4.2cm (H)
	5.5" (W) x 5.4" (D) x 1.7" (H)
Dimensions (Boxed):	17.8cm (W) x 17cm (D) x 5.6cm (H)
	7.0" (W) x 6.7" (D) x 2.2" (H)
Weight:	Nett: 0.42kg Gross: 0.56kg
	Nett: 0.95lbs Gross: 1.25lbs

Accessories

AVN-DIOBT	AVN-DIO Large Unit Belt Clip Kit
AVN-DIOMT	Large Unit Underdesk Mount
AVN-DIORK	AVN-DIO 1U 19" Rack Kit (5 x Small DIO or 3 x Large DIO)



AVN-DIO15 Front View.



AVN-DIO15 Rear View.



AVN-DIO16 to 4 Analogue XLR Outputs



Typical Applications: These simple plug and play audio interfaces provide a convenient and elegant method of connecting legacy analogue and digital audio equipment to the Dante AoIP audio network.

Category: Dante Audio Interfaces.

Product Function: Dante® to 4 Analogue XLR Outputs

The AVN-DIO16 is a 4 analogue XLR output to Dante converter in the Sonifex DIO range of Dante input/output devices. It features four balanced analogue XLR outputs and one Neutrik etherCON connector for direct connection to a Dante AoIP network.

The front panel provides a global 0dBFS line-up which can be set to +12dBu, +18dBu or +24dBu to meet your specific requirement via the front panel recessed toggle switch. There are also front panel LEDs to indicate network clock status, AoIP link status and PoE power active.

It's powered using Power over Ethernet (PoE), using a Neutrik etherCON connector. The AVN-DIO16 uses the latest Audinate Dante chipset so is AES67 and Dante Domain Manager compliant.



Technical Specification For AVN-DIO16

Analogue XLR Input Pin-out

Pin	Function
1	Chassis Ground
2	Phase
3	Non Phase

Line Inputs - XLR

Input Impedance:	5kΩ balanced
0dBFS Line-Up:	Selectable +12/+18/+24dBu
Frequency Response:	20Hz to 20kHz, +0/-0.2dB (ref 1kHz)
THD+N:	<-118dBFS, -12dBu (+18dBu=0dBFS mode), 20Hz to 20kHz, 20kHz BW
Dynamic Range	120dB, 20kHz BW, Rs=200Ω
Cross Talk	<-110dB
Common Mode Rejection	>60dB @ 1kHz

Network and AoIP

AoIP Standard:	Dante
Channels:	4 transmit
Flows:	2 transmit
Sample Rates:	44.1kHz, 48kHz, 88.2kHz, 96kHz
Encoding:	PCM 16, PCM 24, PCM 32
AES67 Support	Yes
Connectivity:	etherCON (RJ45 compatible)
Speed:	100Mbps
Dante Domain Manager Ready:	Yes
Clock Source:	Internal (PTP Leader), Network PTP Leader or from SDI input (Sync to External)

PoE Power

Standard	802.3af
Class	0
PD Power Range	0.44 W to 12.94 W

Typical PSE Power Usage	6 W
Max PSE Usage	15.4 W

Equipment Type

AVN-DIO15:	4 Analogue XLR Inputs to Dante®
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Physical Specification

Dimensions (Raw):	14.0cm (W) x 13.6cm (D) x 4.2cm (H)
5.5" (W) x 5.4" (D) x 1.7" (H)	
Dimensions (Boxed):	17.8cm (W) x 17cm (D) x 5.6cm (H)
7.0" (W) x 6.7" (D) x 2.2" (H)	
Weight:	Nett: 0.42kg Gross: 0.56kg
	Nett: 0.95lbs Gross: 1.25lbs

Accessories

AVN-DIOBT	AVN-DIO Large Unit Belt Clip Kit
AVN-DIOMT	Large Unit Underdesk Mount
AVN-DIORK	AVN-DIO 1U 19" Rack Kit (5 x Small DIO or 3 x Large DIO)



AVN-DIO16 Front View.



AVN-DIO16 Rear View.



AVN-DIO19 Dante® to AES3 16 Channel I/O Converter



Category: Dante Audio Interfaces.

Product Function: Dante® to AES3 16 Channel I/O Converter.

Typical Applications: These simple plug and play audio interfaces provide a

convenient and elegant method of connecting legacy analogue and digital audio equipment to the Dante AoIP audio network.

Features:

- 8 x balanced digital stereo AES3 inputs and outputs on 2 x 25-way D-types.
- Sample rate conversion of physical inputs to Dante system sample rate.
- Physical output sample rate matches Dante system sample rate.

- Dual redundant Primary and Secondary Dante network ports using Neutrik EtherCON® Ethernet connectors.
- Powered via PoE (Power over Ethernet) with PoE dual redundancy.
- Fully Dante compliant device.
- AES67 compatible.
- Dante Domain Manager compliant.

- Web interface for configuration.
- Clock, PoE, Network link and AES3 input lock LEDs.
- All available Dante sample rates supported.
- Supplied with belt-clip, shoulder strap hooks (but not the strap) and under desk mounting plate.
- 3 x units rackmount in the AVN-DIORK.



The AVN-DIO19 audio converter and interface converts up to eight digital stereo AES3 inputs and eight digital stereo AES3 outputs to and from the Dante Audio-over-IP networking standard. Each input can accept sample rates from 32kHz to 192kHz, which will be sample rate converted to the Dante system sample rate. All outputs follow the Dante system sample rate.

It's powered using Power over Ethernet (PoE), using Neutrik EtherCON® connectors, with primary and secondary ports for power and data redundancy. The AVN-DIO19 uses the latest Audinate Dante® chipsets so is AES67 and Dante Domain Manager® compliant.

There are front panel LEDs to indicate network clock status, AoIP Primary and AoIP Secondary link status, PoE Primary power and PoE Secondary power active. In addition to these there are 8 AES3 input lock status LEDs.

A web interface is available for firmware updates, status information, network and device settings.

The AVN-DIO19 is supplied with a belt-clip, shoulder strap hooks (but not the strap) and an under desk mounting plate. Up to 3 of the AVN-DIO19 units can be rackmount in the 1U AVN-DIORK.

- 8 x balanced digital stereo AES3 inputs and outputs on 2 x 25-way D-types.
- Sample rate conversion of physical inputs to Dante system sample rate.

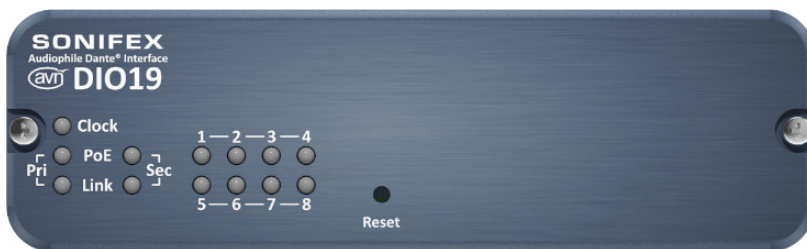
- Physical output sample rate matches Dante system sample rate.
- Dual redundant Primary and Secondary Dante network ports using Neutrik EtherCON® Ethernet connectors.
- Powered via PoE (Power over Ethernet) with PoE dual redundancy.
- Fully Dante compliant device.
- AES67 compatible.
- Dante Domain Manager compliant.
- Web interface for configuration.
- Clock, PoE, Network link and AES3 input lock LEDs.
- All available Dante sample rates supported.
- Supplied with belt-clip, shoulder strap hooks (but not the strap) and under desk mounting plate.
- 3 x units rackmount in the AVN-DIORK.

Technical Specification For AVN-DIO19

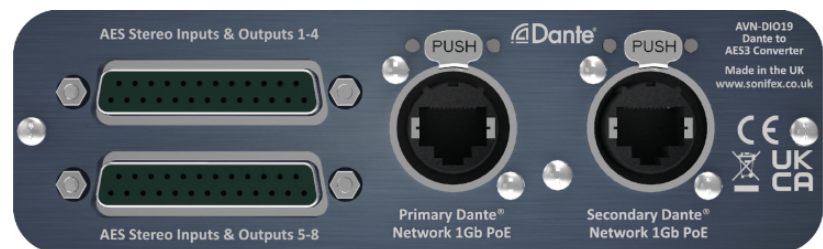
AES3 I/O	
Input & Output Impedance:	110Ω Balanced
Sample Rates:	32 – 192kHz
Network and AoIP	
AoIP Standard:	Dante
Channels:	16 receive, 16 transmit
Flows:	16 receive, 16 transmit
Sample Rates:	44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
Encoding:	PCM 16, PCM 24, PCM 32
Connectivity:	2 x etherCON (RJ45 compatible)
Speed:	1Gbps or 100Mbps
Network Modes:	Switched or redundant
AES67 Support:	Yes
Dante Domain Manager Ready:	Yes
Clock Source:	Internal (PTP Leader) or from Network PTP Leader
PoE Power	
Standard	802.3af
Redundancy	Yes
Class	0
PD Power Range	0.44 W to 12.94 W
Typical PSE Power Usage	4.6W
Max PSE Usage	15.4 W
Equipment Type	
AVN-DIO19:	Dante to AES3 16 channel I/O converter
Physical Specification	
Dimensions (Raw):	14.0cm (W) x 13.6cm (D) x 4.2cm (H)
	5.5" (W) x 5.4" (D) x 1.7" (H)
Dimensions (Boxed):	17.8cm (W) x 17cm (D) x 5.6cm (H)
	7.0" (W) x 6.7" (D) x 2.2" (H)
Weight:	TBD

Accessories

AVN-DIORK:	AVN-DIO 1U 19" rack kit (5 x small DIO or 3 x large DIO)
CBL-D25-4X14XO:	AES3 balanced cable, DB25 to 4 x XLR3M and 4 x XLR3F, 3m
CBL-D25-D25:	AES3 balanced cable, DB25 to DB25, 3m



AVN-DIO19 Front View.



AVN-DIO19 Rear View.





AVN-DIO20 Dante® to MADI AES3 64 Channel I/O Converter



Category: Dante Audio Interfaces.

Product Function: Dante® to MADI AES3 64 Channel I/O Converter.

Typical Applications: These simple plug and play audio interfaces provide a convenient and elegant method of connecting legacy analogue and digital

audio equipment to the Dante AoIP audio network.

Features:

- 1 x AES10 MADI input and output, on either SFP or coaxial BNC (up to 64 channels of MADI I/O).
- 8 x stereo AES3 inputs and outputs on 2 x 25-way D-types, using AES59 digital pinout.
- Dual redundant Primary and Secondary Dante network ports using Neutrik EtherCON® Ethernet connectors.

- Powered via PoE (Power over Ethernet) with PoE dual redundancy.
- Fully Dante compliant device.
- AES67 compatible.
- Dante Domain Manager compliant.
- Web interface for configuration.
- Clock, PoE, Network link, AES3 input lock and MADI active LEDs.
- MADI 64, 56, 28 and 16 channel support and audio sample rate support up to 192kHz.

- MADI SFP to BNC automatic failover.
- All available Dante sample rates supported (44.1kHz to 192kHz).
- Sample rate conversion of audio between Dante and MADI/AES3.
- Dante clock domain can be optionally synchronised from the MADI source.
- Supplied with belt-clip, shoulder strap hooks (but not the strap) and under desk mounting plate.
- 3 x units rackmount in the AVN-DIORK.

The AVN-DIO20 is a MADI and AES3 to Dante bridging device allowing MADI to connect bidirectionally with AoIP, together with 8 stereo channels of AES3. This simple plug and play audio interface provides a quick and convenient method of connecting legacy MADI equipment to the Dante AoIP audio network.

The AVN-DIO20 takes a MADI feed, sample rate converts all 64 channels and places them on the Dante network, mapped using Dante Controller. It simultaneously takes the 64 channels mapped to the device on Dante Controller, optionally sample rate converts them, and transmits them on the MADI output. The unit accepts 8 stereo AES3 inputs and place them on the Dante network, replacing 16 of the selected MADI input channels. The unit also sends 8 stereo AES3 outputs which can be sourced from the Dante channels, in blocks of 16.

The coaxial BNC output is disabled while the SFP is in use. There is also an additional automatic failover mode which, when selected, allows for automatic switching to the BNC input when the SFP signal is lost, providing glitch free audio redundancy.

The MADI output audio can be clocked from either the Dante network, in which case the output SRC is bypassed, or the recovered clock obtained from the MADI input.

It's powered using Power over Ethernet (PoE), using Neutrik EtherCON® connectors, with primary and secondary ports for power and data redundancy. The AVN-DIO20 uses the latest Audinate Dante™ chipsets so is AES67 and Dante Domain Manager™ compliant.

The unit accepts MADI signals from either a compatible SFP module or the coaxial BNC input. The input can be selected via the built-in web GUI or, by default, it will use an SFP module if it is inserted into the unit.



There are front panel LEDs to indicate network clock status, AoIP Primary and AoIP Secondary link status, PoE Primary power and PoE Secondary power active. In addition there are 8 AES3 input lock status LEDs and an active MADI input indication.

A web interface is available for network and device settings, status information and firmware updates.

The AVN-DIO20 is supplied with a belt-clip, shoulder strap hooks (but not the strap) and an under desk mounting plate. Up to 3 of the AVN-DIO20 units can be rackmount in the 1U AVN-DIORK.

- 1 x AES10 MADI input and output, on either SFP or coaxial BNC (up to 64 channels of MADI I/O).
- 8 x stereo AES3 inputs and outputs on 2 x 25-way D-types, using AES59 digital pinout.
- Dual redundant Primary and Secondary Dante network ports using Neutrik EtherCON® Ethernet connectors.
- Powered via PoE (Power over Ethernet) with PoE dual redundancy.
- Fully Dante compliant device.

- AES67 compatible.
- Dante Domain Manager compliant.
- Web interface for configuration.
- Clock, PoE, Network link, AES3 input lock and MADI active LEDs.
- MADI 64, 56, 28 and 16 channel support and audio sample rate support up to 192kHz.
- MADI SFP to BNC automatic failover.
- All available Dante sample rates supported (44.1kHz to 192kHz).
- Sample rate conversion of audio between Dante and MADI/AES3.
- Dante clock domain can be optionally synchronised from the MADI source.
- Supplied with belt-clip, shoulder strap hooks (but not the strap) and under desk mounting plate.
- 3 x units rackmount in the AVN-DIORK.

Technical Specification For AVN-DIO20

MADI I/O	
BNC Input & Output Impedance:	75Ω Unbalanced
MADI Input Sample Rate/Channels:	48kHz – 56/64 channels 96kHz – 28/32 channels 192kHz – 16 channels
MADI Output Sample Rate/Channels:	Follow input, Dante sample rate
Connections:	Coaxial BNC input and output SFP - LVDS SFP 100MB/s

AES3 I/O	
Input & Output Impedance:	110Ω Balanced
Sample Rates:	32 – 192kHz
Connections:	8 x stereo AES3 inputs and outputs on 2 x 25-way D-types using AES59 pinout

Network and AoIP	
AoIP Standard:	Dante
Channels:	64 receive, 64 transmit
Flows:	32 receive, 32 transmit
Sample Rates:	44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
Encoding:	PCM 16, PCM 24, PCM 32
AES67 Support:	Yes
Connectivity:	2 x etherCON (RJ45 compatible)
Speed:	1Gbps or 100Mbps
Network Modes:	Switched or redundant
Dante Domain Manager Ready:	Yes
Clock Source:	Internal (PTP Leader), Network PTP Leader or from MADI input

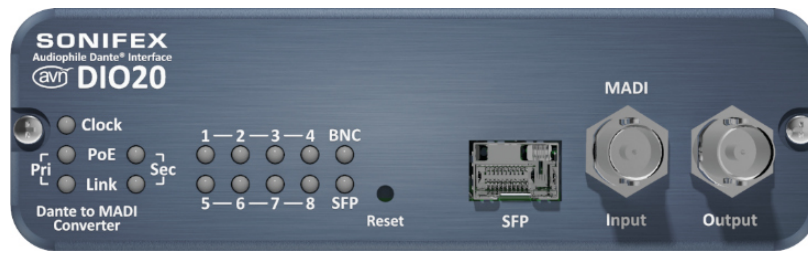
PoE Power	
Standard	802.3af
Redundancy	Yes
Class	0
PD Power Range	0.44 W to 12.94 W

Typical PSE Power Usage	6.1W
Max PSE Usage	15.4 W

Equipment Type	
AVN-DIO20:	Dante to MADI/AES3 64 channel I/O converter

Physical Specification	
Dimensions (Raw):	14.0cm (W) x 13.6cm (D) x 4.2cm (H) 5.5" (W) x 5.4" (D) x 1.7" (H)
Dimensions (Boxed):	17.8cm (W) x 17cm (D) x 5.6cm (H) 7.0" (W) x 6.7" (D) x 2.2" (H)
Weight:	Nett: 0.5kg Gross: 0.9kg Nett: 1.1lbs Gross: 2.0lbs

Accessories	
AVN-DIORK:	AVN-DIO 1U 19" rack kit (5 x small DIO or 3 x large DIO)
CBL-D25-4X14XO:	AES3 balanced cable, DB25 to 4 x XLR3M and 4 x XLR3F, 3m
CBL-D25-D25:	AES3 balanced cable, DB25 to DB25, 3m



AVN-DIO20 Front View.



AVN-DIO20 Rear View.



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