

# SONIFEX

Manufacturers of Audio Products for AV,  
Installed Sound, Broadcast Radio & Broadcast TV

## AVN-DIO10-12G

Dante<sup>®</sup> to 12G/6G/3G/HD/SD-SDI  
Embedder/De-Embedder



# AVN-DIO10-12G Dante® to 12G/6G/3G/HD/SD-SDI Embedder/De-Embedder



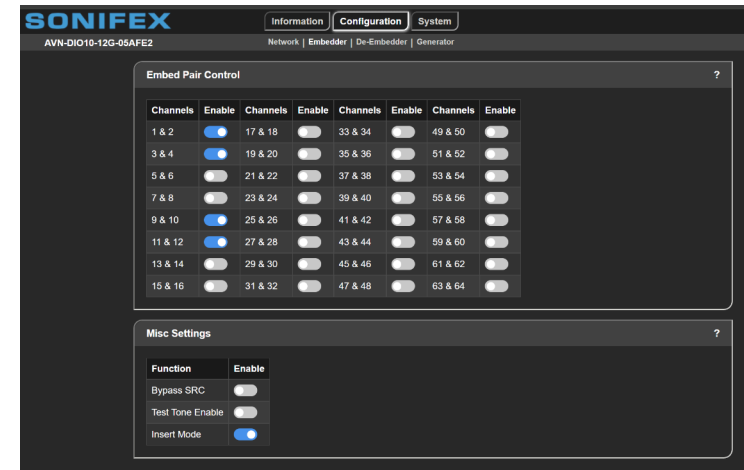
An upgrade to the extremely popular AVN-DIO10, the new AVN-DIO10-12G now adds support for the full range of SDI standards from SD-SDI through to 12G-SDI.

The AVN-DIO10-12G can be used for simultaneous embedding and de-embedding for up to 64 channels. This simple plug and play audio/video interface provides a convenient and elegant method of connecting legacy 12G/6G/3G/HD/SD-SDI equipment to the Dante® AoIP audio network.

The AVN-DIO10-12G takes an SDI feed, de-embeds up to 64 audio channels and places them on channels 1-64 on the Dante network, mapped using Dante Controller. It simultaneously takes the 64 input channels mapped to the device on Dante Controller and re-embeds them onto the SDI output.

The unit also contains an integrated SDI generator to allow embedding onto the SDI output without the need of an SDI input. This is fully configurable through the web UI.

Other controls provided through the web UI 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.



## Network Audio and Control

**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 by Power over Ethernet (PoE), using Neutrik® EtherCON connectors, with primary and secondary ports for power and data redundancy. The AVN-DIO10-12G 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, control, status information and network settings.

Up to 3 of the AVN-DIO10-12G units can be rackmounted in the 1U AVN-DIORK.



## Technical Specifications

### SDI Input

<b>Input Impedance:</b>	75Ω Unbalanced
<b>SDI Supported Standards:</b>	270Mbps SMPTE-259M-C (SD)
	1.485 or 1.4835Gbps SMPTE-292M (HD)
	2.97 or 2.967Gbps SMPTE-424M (3G)
	5.94 or 5.934Gbps SMPTE-2081 (6G)
	11.88 or 11.868Gbps SMPTE-2082 (12G)

<b>Supported Video Formats:</b>	525/59.94 (SMPTE-125M)
	625/50 (ITU-R BT.656)
	720p/23.98, 24, 25, 29.97, 30, 50, 59.94, 60 (SMPTE-296M)
	1035i/59.94, 60 (SMPTE-260M)
	1080i/50, 59.94, 60 (SMPTE-274M)
	1080p/23.98, 24, 25, 50, 59.94, 60 (SMPTE-274M)
	1080pSF/23.98, 24, 25, 29.97, 30 (RP-211)
	1080i/50 (SMPTE-295M)
	1080p/50 (SMPTE-295M)
	2160p/23.98, 24, 25, 29.97, 30, 50, 59.94, 60 (SMPTE-2036)

<b>Embedded Audio:</b>	48kHz, synchronous
	SMPTE-272M-ABC
	SMPTE-299M
	SMPTE-299-2 (De-embedding only)

<b>Supported Image Mapping:</b>	SMPTE-425M-AB
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### SDI Output

<b>Output Impedance:</b>	75Ω Unbalanced
<b>Alignment Jitter:</b>	<0.2UI
<b>Output Level:</b>	800mV ±10%
<b>Return Loss:</b>	TBC
<b>SDI Supported Standards:</b>	Loop-through - Output follows input
	Generator – See above standards
<b>Supported Video Formats:</b>	Loop-through - Output follows input
	Generator – See above formats
	48kHz, synchronous
	SMPTE-272M-C
	SMPTE-299M

\*Check website for latest standards