

SONIFEX

Audio Solutions for AV
& Broadcast Media

Products Overview



See our full range,
Visit: www.sonifex.co.uk



AVN Products

The AVN (Audio Video Network) products are designed to operate over a standard CAT5 infrastructure, offering Dante® or RAVENNA/AES67 AoIP compatibility and simple web server configuration.

AoIP Commentary

The Sonifex AoIP commentary range includes three models: the easy-to-use AVN-CU1, a fixed-format single commentator unit with Dante AoIP, and the versatile, configurable **AVN-CU2**, (2 commentators) and **AVN-CU4**, (4 commentators), which are available with Dante or RAVENNA/AES67 AoIP.

The AVN-CU1 in more detail. This single mic/headphone amplifier has five inputs: three talkback channels, programme and sidetone, each with an individual potentiometer for level control. Dante Audio outputs are routed and controlled by illuminated pushbuttons. There's an OLED display for setup and configuration, a high impact LED bar graph for metering and unique downlighting to indicate the units status.



AVN-CU4 (pictured above) and the AVN-CU2 is now available with Dante or RAVENNA AoIP.

The DIO Analogue & Digital Dante® Interfaces

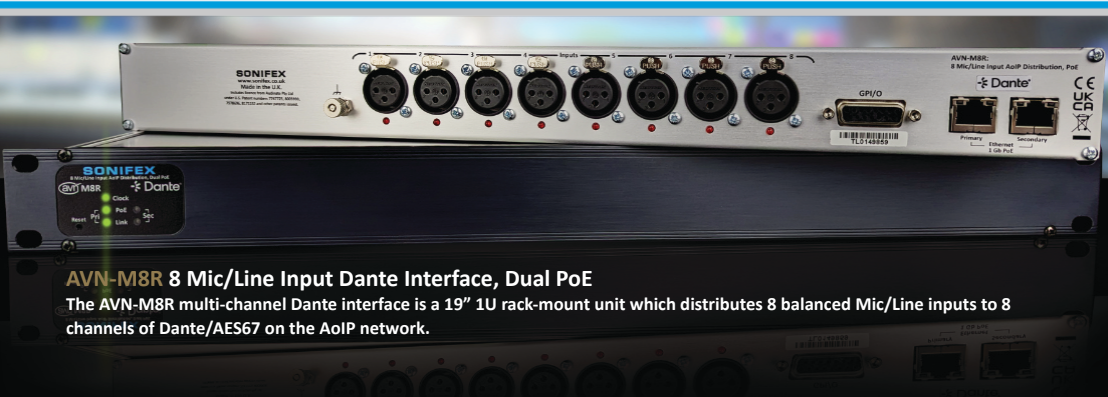


If you're putting audio onto your Dante® network, make it the best audio quality that it can be, by using the Sonifex DIO interfaces. These simple plug and play audio interfaces provide a convenient and elegant method of connecting legacy analogue and digital audio equipment to the Dante AoIP network.

What sets these units apart is their exceptional audio and build quality. Our analogue DIO interfaces reinforce this with high-grade A/D and D/A circuitry, delivering over 120dB of dynamic range - up to 10x the analogue performance of comparable products.

- AVN-DIO01** Dante to Analogue XLR Stereo Output
- AVN-DIO02** Analogue XLR Stereo Input to Dante
- AVN-DIO03** Dante to Headphone Output (1/4" & 3.5mm Jacks) With Volume Control & Limiter
- AVN-DIO04** Dante Analogue Phono Stereo Input & Output
- AVN-DIO05** Dante Analogue Terminal Block Stereo Input & Output
- AVN-DIO06** Dante AES3 XLR Stereo Input & Output
- AVN-DIO07** Dante AES3 BNC Stereo Input & Output
- AVN-DIO08** Dante AES3 Terminal Block Stereo Input & Output
- AVN-DIO09** Microphone Input to Dante

- AVN-DIO10** Dante® 3G/HD/SD-SDI Embedder/De-Embedder
- AVN-DIO12** Dual Microphone Input to Dante® with Mic Gain Converter
- AVN-DIO14** Dante® XLR Analogue Stereo Input & Output
- AVN-DIO15** 4 Analogue XLR Inputs to Dante®
- AVN-DIO16** Dante® to 4 Analogue XLR Outputs
- AVN-DIO19** Dante® AES3 16 Channel I/O Converter
- AVN-DIO20** Dante® MADI AES3 64 Channel I/O Converter



AVN-M8R 8 Mic/Line Input Dante Interface, Dual PoE

The AVN-M8R multi-channel Dante interface is a 19" 1U rack-mount unit which distributes 8 balanced Mic/Line inputs to 8 channels of Dante/AES67 on the AoIP network.

AVN-GPIO GPIO LAN Transceiver

The **AVN-GPIO** converts GPIO (General Purpose Inputs & Outputs) to network commands to control, and be controlled by, other equipment or software across a standard network.



Generation 1 Multi-Channel AoIP Audio Interfaces

These AoIP audio interfaces convert balanced analogue audio line inputs and outputs to AoIP. Simple to configure and operate, these cost effective rack-mount solutions offer an easy solution for AV professionals and system integrators.



AVN-AIO4 4 Input, 4 Output Dante® Interface, PoE.

- AVN-M8R** 8 Mic/Line Input Dante® Interface, Dual PoE
- AVN-AH8** 8 Stereo Analogue Headphone Outputs Dante® Interface, PoE
- AVN-AIO4** 4 Input, 4 Output Dante® Interface, PoE
- AVN-AIO8R** 8 Input, 8 Output, Dante® Interface, Dual PoE
- AVN-AI16R** 16 Input Dante® Interface, Dual PoE
- AVN-AO16R** 16 Output Dante® Interface, Dual PoE
- AVN-AESIO8R** 8 AES3 Input, 8 AES3

The Generation 2 Multi-Channel AoIP Audio Interfaces

The Generation 2 offers the same features and build quality as the Generation 1 range, now enhanced with dual PoE for data and power redundancy, plus USB-C power as standard. These units are available in Dante® or RAVENNA/AES67 variants, with a choice of XLR or terminal block connectivity.



 Dante®

 RAVENNA



AVN-GMCS & AVN-GMCS Grandmaster Clock



The **AVN-GMCS/OS** is a GPS receiver and PTPv2 grandmaster clock for use

with AoIP applications. IEEE1588-2008 PTPv2 (precision time protocol) is used to synchronise all the nodes within a network. The **AVN-GMCS/OS** supports the default RAVENNA & Media (AES67) profiles and has PTPv2 time stamping resolution to 8nsec. Options for precision onboard crystals provides accurate holdover sync if the GPS signal is lost. The unit also has physical wordclock, AES and PPS outputs for studio use.



 AES67  

12 x 2 Channel AES67 Mix Monitor



The AVN-PXH12 can simply and effectively simultaneously monitor and mix up to 24 x AES67 AoIP sources in a compact 1U rack to a speaker/headphone combination in a quick and intuitive way.

Multi-Channel Audio Mix Engine Interfaces Using AES67 AoIP



AVN-PA8 Front View.



AVN-PA8D Front View.



AVN-PA8 & AVN-PA8D Rear View.

The AVN Portal range comprises three mix engine audio interfaces that mix and route analogue, AES3, microphone, and AES67 inputs to analogue, AES3, and AES67 outputs.

Each of the portals can be ordered either with the input/output metering displays (D version) or without. All units have input/output/crosspoint level trim and output limiters.

- AVN-PA8/D** 8 Stereo Analogue Line Inputs & Outputs
- AVN-PD8/D** 8 Stereo Digital Line Inputs & Outputs
- AVN-PM8/D** 8 Mic/Line Inputs, 8 Line Outputs

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 **Designed & Built In Britain**

IP Streamers

The Pro Audio Streamers are a range of three IP to audio and audio to IP streamers.

They each have professional analogue and digital inputs/ outputs and allow audio to be streamed around a building, wan or lan using IP audio and CAT5 cabling infrastructure.

The **PS-SEND-SD** which converts an audio input to an IP stream.

The **PS-PLAY** which reads an IP stream and outputs to balanced and unbalanced audio line levels.

The **PS-AMP** which reads an IP stream and outputs audio to stereo speakers.



PS-SEND-SD Free Standing Audio to IP Streaming Encoder.

Audio Monitors & Controllers

The Reference Monitor Range is a series of rack-mount audio monitors, combining the latest DSP technology with outstanding audio enclosure design to produce monitors of the highest standards with exceptional sound quality, a comprehensive feature set and good looks in the rack.



RM-4C8 Reference Monitor, 4 LED Meters, 8 Channel Inputs & Dual Source Selectors.



RM-MC51L Monitor Controller, 5.1 Stereo Inputs & Outputs With Light Control.

RM-HD1 Reference Monitor 3G/HD/SD-SDI Expansion Card.

This expansion board allows the monitoring of embedded non-encoded linear PCM audio channels within an 3G/HD/SD-SDI video signal. The **RM-HD1** card can be used with the **RM-2S4**, **RM-2S10** and **RM-4C8** monitors.



RM-CAD8 Confidence Monitor, 2 LED Meters, 2 Analogue & 6 Digital Stereo Inputs.

LED Studio & Room Signs



The SignalLED range of illuminated RGB LED signs are designed for use outside recording, on-air & production studios, meeting rooms, conference rooms and for fixed installations.

- Low power consumption, only 4W.
- Maintenance free, LED lighting.
- Multi-coloured RGB LEDs offering 9 different colours.
- Sign can be made to flash, pulse, fade and be on or off.
- Flush-mounting as standard, end/ceiling-mounting kits.
- 20cm (8") or 40cm (16") widths or 2 x 20cm (2 x 8").
- Standard wording includes: MIC LIVE, ON AIR, RECORD, PHONE, TX-REH, REHEARSAL, NO ENTRY, EXIT, SILENCE PLEASE, MEETING IN PROGRESS, INTERVIEW IN PROGRESS.
- Custom signs - company logos, different wording or graphics.
- 2 x GPIOs for light switch, or fader GPO control.
- Supplied as standard as red/green switching.
- Programmer colours, etc, using LD-RPC remote.
- Supplied complete with fixings & DC power supply.

Radio Broadcast Mixing Consoles

The S0v2, S1 and S2 mixers are high quality radio broadcast consoles offering all the features needed for professional use in community, commercial, and professional radio.

S0v2 Radio Broadcast Mixer

The **S0v2** is a high quality yet simple to operate radio broadcast mixer ideally suited to community radio stations, for educational purposes and for internet radio.

S1 Digital/Analogue Radio Broadcast Mixer

The **S1** has an amazing feature set and offers a proper broadcast solution to community, educational and student radio stations that need a versatile, reliable radio broadcast mixer.

S2 - Digital I/O Analogue Radio Broadcast Mixer

The **S2** combines all the features needed of a modular radio broadcast mixer in a stylish, flush-mounting chassis.



Talkback & IFB

Talkback and IFB facilities for OB trucks with talkback controllers & headphone amplifier belt packs.

CM-TB8 8 Channel Talkback Control Unit

The **CM-TB8** is a powerful and highly flexible self contained communications unit allowing multiple 4-wires and IFBs within a single 1U rack space.



CM-TB8 8 Channel Talkback Control Unit.

CM-TBG & CM-TBT GSM & Telco Options for CM-TB8

Plug-in cards allow two channels of the 4 wire/IFB comms to talk to either 2 x GSM lines or 2 x POTS lines with full duplex communication.

Analogue Commentary

The analogue commentary range consist of the single position **CM-CU1** commentator unit and the **CM-CU21** commentator unit for 2 commentators & 1 guest.

CM-CU1
Commentator Unit
1 Commentator & Line Input.



CM-CU21
Commentator Unit
2 Commentators & 1 Guest.



Belt Packs

The Belt Packs are portable, ergonomic, battery powered, 4 wire communication units for use in a multitude of TV and radio broadcasting applications. High quality aluminium cases and with around 200 hours battery life.

The **CM-BHA** is a headphone amplifier for use in live applications. The **CM-BH4W** & **CM-BH4WX** are a 4 wire portable communication unit.



Redbox Audio & Video Interfaces

Redbox is a range of products used for interfacing equipment in radio and TV broadcast networks. They are the 'glue' which hold broadcast infrastructure together, simply fit and forget them.



Digital Audio Converters



RB-ADDA2 Combined A/D and D/A Converter, 24bit 192kHz.

- RB-ADDA** Combined A/D and D/A Converter.
RB-ADDA2 Combined A/D and D/A Converter, 24bit 192kHz.
RB-DAC1 Digital to Analogue Converter.
RB-SC2 Dual Sample Rate Converter, 24bit 192kHz.

Sync Add-On Boards for the RB-SC2

- RB-SYA** Analogue Video Sync Add-On Board.
RB-SYD Digital Video Sync Add-On Board.

Synchronisers, Delays & Silence Detectors

- RB-DS2** Stereo Delay Sync & Time Zone Delay.
RB-DS2R Remote Switch Panel For RB-DS2.
RB-PD2 Stereo Profanity Delay.
RB-DD4 4 Channel Digital Audio Delay.
RB-AEC Acoustic Echo Canceller.
RB-SD1 Silence Detect Unit.
RB-SD1IP Silence Detection Unit With Ethernet & USB.
RB-DSD1 Digital Silence Detect Unit.
RB-DSD8 8 Channel Silence Switcher.
RB-FS42 Audio Failover Switcher, 4 Main I/O, 2 Standby I/O.
RB-FS42DC Audio Failover Switcher, 4 Main I/O, 2 Standby I/O, DC PSU.
RB-FS82 Audio Failover Switcher, 8 Main I/O, 2 Standby I/O.
RB-FS82DC Audio Failover Switcher, 8 Main I/O, 2 Standby I/O, DC PSU.

Matching Converters

- RB-UL2** Dual Unbalanced to Balanced Converter.
RB-UL4 Quad Unbalanced to Balanced Converter.
RB-LU4 Quad Stereo Balanced to Unbalanced Cnvrtr.
RB-BL2 Unbalanced to Balanced Bi Directional Converter.
RB-BL4 Dual Stereo Bi-Directional Matching Amplifier.
RB-PA2 Dual Stereo RIAA Phono Amplifier.
RB-LI2 Stereo Line Isolation Unit.
RB-PLI6 6 Way Mono Passive Line Isolation Unit.

Audio Distribution Amplifiers

- RB-DA6** 6 Way Stereo Distribution Amplifier.
RB-DA6G 6 Way Stereo Distribution Amplifier With Output Gain Control.
RB-DA6RG 6 Way Stereo Distribution Amplifier With RJ45 Connectors & Output Gain Cntrl.
RB-DA4x5 4 Input, 4 x 5 Output Distribution Amplifier/Mixer.
RB-DDA6A 6 Way AES/EBU Digital Distribution Amplifier.
RB-DDA6A-2P 6 Way Stereo AES/EBU Digital Distribution Amplifier with Dual Power Supplies.
RB-DDA6A3 6 Way Stereo AES3ID Digital Audio Distribution Amplifier.
RB-DDA6S 6 Way S/PDIF Digital Distribution Amplifier.
RB-DDA6W 6 Way Word Clock Distribution Amplifier.
RB-DDA6W-2P 6 Way Word Clock Distribution Amplifier with Dual Power Supplies.
RB-DDA22 Digital Audio Distribution Amplifier With Multiple Outputs.
RB-DA24MD 24 Way Mono Audio Distribution Amplifier.

These 3 units are also available as single 3 way products:

- AES4B3** Quad 3 Way Passive AES3ID Splitter BNC Connectors.
RB-AES4X3 Quad 3 Way AES/EBU Splitter XLR Connectors.
RB-MS4X3 Quad 3 Way Passive Microphone Splitte



Headphone Distribution Amplifiers

- RB-HD1** Stereo Headphone Amplifier.
RB-HD2 Dual Stereo Headphone Amplifier.
RB-HD6 6 Way Headphone Distribution Amplifier.
RB-DHD6 Digital 6 Way Headphone Distribution Amp.

Mixers, Source Selectors & Switchers

- RB-SS10** 10 Way Stereo Analogue Source Selector/Mixer.
RB-PMX4 10 Input, 4 Output Analogue Preset Mixer. Compressor/Limiter.
RB-OA3 3 Studio On-Air Switcher.
RB-OA3R Remote Switch Panel For RB-OA3.
RB-OA3C Expansion Unit Cable Kit For The RB-OA3.

Microphone Amplifiers & Limiters

- RB-MA1** Single Microphone Amplifier.
RB-MA2 Dual Microphone Amplifier.
RB-MA2G Dual Microphone Amplifier with Gain Controls.
RB-ML2 Microphone and Line Level Limiter.
RB-SL2 Twin Mono, or Stereo, Limiter.

Stereo To Mono Converters

- RB-SM2** Dual Stereo to Mono Converter.

Power Controllers

- RB-LC3** 3 Way Light/Power Controller.

Talkback & Communications



RB-IPE IP Extender for GPIO & Analogue Control Signals.

- RB-MM1** Mix-Minus Generator.
RB-MTV1 Voiceover Monitor with Talkback.
RB-IPE IP Extender for GPIO & Analogue Control Signals.

Tone Generators

- RB-TGHDB** Multi-channel HD tone generator with BNC outputs.
RB-TGHDX Multi-channel HD tone generator with XLR outputs.

Sync Add-On Boards for the RB-TGHDB/X

- RB-SYE** AES/EBU Sync Board.
RB-SYW Word Clock Sync Board.

Video Distribution Amplifiers



RB-VHDA2x4 3G/HD/SD-SDI 2 Input, 8 Output Video Distribution Amplifier.

- RB-VHDA2x4** 3G/HD/SD-SDI 2 Input, 8 Output Video Distribution Amplifier.

Video Embedders & De-Embedders

- RB-VHDMA8** 3G/HD/SD-SDI De-Embedder, 8 Channel Analogue Outputs.
RB-VHEMA8 3G/HD/SD-SDI Embedder, 8 Channel Analogue Inputs.
RB-VHCMA4 3G/HD/SD-SDI Embedder & De-Embedder, 4 Channel Analogue I/O.
RB-VHCMD16 3G/HD/SD-SDI Embedder & De-Embedder, 16 Channel Digital I/O.

Rack Mount & Front Panel Kits

- RB-RK1** 1U Front Rack Kit for Small Redboxes.
RB-RK2 1U Rear Rack Kit for Small Redboxes.
RB-RK3 1U Rear Rack Kit for Large Redboxes.

For other Redbox accessories please visit our website.

Telephone Hybrids

Sonifex telephone hybrids are some of the best sounding hybrids in the world with analogue, digital, portable, VoLTE Voice hybrids available.

HY-03S Analogue TBU, Rack Mounted.



Analogue Telephone Hybrids

The analogue **HY-03** telephone hybrid sets the standard as an excellent value, high quality telephone hybrid. It is fully automatic, with automatic signal limiting, automatic call answering and both local and remote line hold switching.

Digital Telephone Hybrids

The digital **DHY-04** range of telephone hybrids are probably the best performing digital hybrids in the world, with simply stunning line balance rejection figures - 76dB typically. They are fully automatic together with echo cancellation, conferencing, front panel input and output gain controls and front panel LED metering of receive and send signals.

Additionally it has auto-sensing AES/EBU or analogue XLR I/O, an Ethernet port for remote configuration and remote control, SNMP and DTMF dial up recognition.

DHY-04V

The **DHY-04V** is a Single Automatic 4G Hybrid with HD Voice, AES/EBU & Analogue I/O with Ethernet. This VoLTE Hybrid is used on a cellular (mobile) phone network, and provides HD Voice quality calling over 4G. Available in freestanding, single 19" & twin form.



DHY-04

The **DHY-04** is a Single Automatic Digital TBU, AES/EBU & Analogue I/O With Ethernet. Available in freestanding, single 19" & twin form.



Portable Telephone Hybrids

The **CM-TBU** line-powered telephone balance unit is a basic hybrid for 2-way talkback purposes and the **CM-TLL** provides a low-loss interface to receive audio from a telephone line.



CM-TBU Line Powered Telephone Balance Unit.



Audio Logging

The Net-Log range is a dedicated 4-channel audio logger for reliable long-term recording and archival. It stores high-quality (MPEG) audio on an internal disk, offers automatic, networked playback to PCs, BWF compatibility, and simple operation for 24/7 use.



It uses a dedicated hardware recording platform with a simple network connection for audio playback.

PCIe Sound & Radio Capture Cards

Sonifex's professional sound and radio capture cards are precision-engineered using top-quality components and circuit design to deliver exceptionally flat frequency response, high fidelity and reliable performance for broadcast and pro audio.

Radio Capture Cards:



PC-DAB 1-4 Multi-Ensemble DAB+/DAB Radcap PCIe Card.

PC-FM 6-32 FM Stations Radcap PCIe Card.



PC-AM 6-32 AM Stations Radcap PCIe Card.



Audio & IP Stream Logging

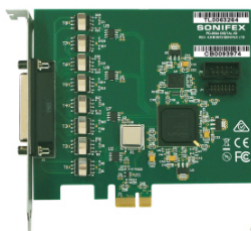
Flashlog 8 is a powerful, configurable, high-capacity logging application that captures multi-channel analogue, digital, IP, DAB+ and internet radio sources, supporting long-term logging (up to ~2 years) with flexible per-channel retention and archiving.

Using the Sonifex sound & radio capture cards, IP based line inputs and internet radio streams, Flashlog can be used to continuously log up to 2 years of radio broadcasts or audio. New features include archiving & logging of HLS streams.



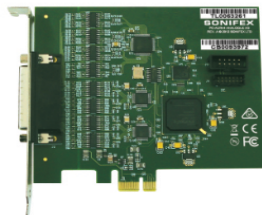
Professional Sound Cards:

The **PC-AD2 2 Stereo Analogue I/O & 2 Stereo AES-3 I/O PCIe Half Height Sound Card** is a dual stereo analogue input/output and dual stereo AES-3 digital input/output sound card. One of the analogue inputs can be used as a mic input, there is a dedicated AES-11 sync input and also 2 GPIOs.



PC-DIG4 Digitorc 4, 4 Stereo AES-3 I/O PCIe Sound Card.

PC-AUR44 Auricon 4.4 PCIe Analogue Sound Card.



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Where to buy Sonifex Products:

