

SONIFEX

Audio Solutions for AV
& Broadcast Media

Products Overview



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



Dante[®]

EMBER+

RAVENNA
AES67 & ST 2310 Building

AES67

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 - Dante®

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 - Dante®



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-AESI08R 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.



AVN-GMCS & AVN-GMCOS 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.



12 x 2 Channel AES67 Mix Monitor



The AVN-PXH12 can simply and effectively simultaneously monitor and mix up to 24 x AES67 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



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.

See the full Reference Monitor Range



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



RECORD

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 GPIs 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-MMI1 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-VHDM8 3G/HD/SD-SDI De-Embedder, 8 Channel Analogue Outputs.
RB-VHEM8 3G/HD/SD-SDI Embedder, 8 Channel Analogue Inputs.
RB-VHCM4 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 out 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.

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.



Where to buy Sonifex Products:



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