

SONIFEX

Audio Solutions for AV
& Broadcast Media

Products Overview



AoIP Products

The AVN (Audio Video Network) product range is designed to operate over a standard CAT5 infrastructure, offering Dante or RAVENNA/AES67 AoIP compatibility and simple plug and play or web server configuration.

AoIP Commentary

The Sonifex AoIP commentary range includes three models: the simple-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 individual level control. Dante Audio outputs are routed and controlled by illuminated pushbuttons on the unit. There's an OLED display for setup and configuration, a high impact LED bar graph for metering and unique downlighting to indicate the unit's 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 interfacing 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 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, significantly exceeding the performance of many comparable analogue products.

AVN-DIO01 Dante to Analogue XLR Stereo Output	AVN-DIO09 Microphone Input to Dante
AVN-DIO02 Analogue XLR Stereo Input to Dante	AVN-DIO10 Dante 3G/HD/SD-SDI Embedder/De-Embedder
AVN-DIO03 Dante to Headphone Output With Volume Control & Limiter	AVN-DIO10-12G Dante 12G/6G/3G/HD/SD-SDI Embedder/De-Embedder
AVN-DIO04 Dante Analogue Phono Stereo Input & Output	AVN-DIO12 Dual Microphone Input to Dante
AVN-DIO05 Dante Analogue Terminal Block Stereo Input & Output	AVN-DIO14 Dante XLR Analogue Stereo Input & Output
AVN-DIO06 Dante AES3 XLR Stereo Input & Output	AVN-DIO15 4 Analogue XLR Inputs to Dante
AVN-DIO07 Dante AES3 BNC Stereo Input & Output	AVN-DIO16 Dante to 4 Analogue XLR Outputs
AVN-DIO08 Dante AES3 Terminal Block Stereo Input & Output	AVN-DIO19 Dante AES3 16 Channel I/O Converter
	AVN-DIO20 Dante MADI AES3 64 Channel I/O Converter
	AVN-GPIO GPIO LAN Transceiver

The Generation 2 Multi-Channel Analogue AoIP 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 input as standard. These units are available in Dante or RAVENNA/AES67 variants, with a choice of XLR or terminal block connectivity.



Generation 1 Multi-Channel AoIP Audio Interfaces



- 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-GMCS & AVN-GMCOS Grandmaster Clock

The **AVN-GMCS/OS** is a GPS receiver and PTPv2 grandmaster clock for use with AoIP applications. IEEE 1588-2008 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. Precision onboard crystal options ensure accurate holdover synchronisation if the GPS signal is lost. The unit also features physical word clock, AES, and PPS outputs for studio integration.



Dante XLR Variants

- AVN-AIO8-DNT** 8 Input, 8 Output XLR Dante Interface
- AVN-AO16-DNT** 16 Output XLR Dante Interface
- AVN-AI16-DNT** 16 Input XLR Dante Interface

Dante Terminal Variants

- AVN-AIO8-T-DNT** 8 Input, 8 Output Terminal Block Dante Interface
- AVN-AO16-T-DNT** 16 Output Terminal Block Dante Interface
- AVN-AI16-T-DNT** 16 Input Terminal Block Dante Interface

RAVENNA XLR Variants

- AVN-AIO8-RAV** 8 Input, 8 Output XLR RAVENNA Interface
- AVN-AO16-RAV** 16 Output XLR RAVENNA Interface
- AVN-AI16-RAV** 16 Input XLR RAVENNA Interface

RAVENNA Terminal Variants

- AVN-AIO8-T-RAV** 8 In, 8 Out Terminal Block RAVENNA Interface
- AVN-AO16-T-RAV** 16 Output Terminal Block RAVENNA Interface
- AVN-AI16-T-RAV** 16 Input Terminal Block RAVENNA Interface

The Generation 2 Multi-Channel Digital AoIP Interfaces



Dante XLR & Terminal

- AVN-AESIO8-DNT** Dante to Digital XLR Stereo Output
- AVN-AESIO8-T-DNT** Dante to Digital XLR Stereo Output

RAVENNA XLR & Terminal

- AVN-AESIO8-RAV** Dante to Digital XLR Stereo Output
- AVN-AESIO8-T-RAV** Dante to Digital XLR Stereo Output



12 x 2 Channel AES67 Mix Monitor



The AVN-PXH12 enables simple and effective monitoring and mixing of up to 24 AES67 AoIP sources simultaneously within a compact 1U rack, delivering audio to both speakers and headphones with fast, intuitive operation.

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

The AoIP Interface Range
Interfacing analogue or digital audio to Dante or RAVENNA/AES67 AoIP

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.



PS-SEND-SD Free Standing Audio to IP Streaming Encoder. 19" Rack variants of each model are available.

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.

The Reference Monitor Range is a series of rack-mount audio monitors that combine advanced DSP technology with exceptional acoustic enclosure design, delivering outstanding performance, superior sound quality, and a comprehensive feature set.

Both analogue and digital monitoring options are available. The flagship RM-X-64 supports Dante or RAVENNA/AES67 AoIP, as well as MAD1, and features two expansion slots. These allow source monitoring to be extended to include 8 channel analogue inputs, 8 stereo digital inputs (16 channels), and up to 64 channels of 12G-SDI per expansion slot.

RM-X-64 64 Channel Dante & MAD1 Reference Monitor, with Input Expansion



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.



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 GPUs for light switch, or fader GPO control.
- Supplied as standard as red/green switching.
- Programmable colours, etc, using LD-RPC remote.
- Supplied complete with fixings & DC power supply.

www.sonifex.co.uk

Designed & Built In Britain

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, with up to 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 Detection Unit.
- RB-SD1IP** Silence Detection Unit With Ethernet & USB.
- RB-DSD1** Digital Silence Detection 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:

- RB-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 Splitter

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 deliver high-quality audio performance, with analogue, digital, portable, and VoLTE voice hybrids available.

HY-03S Analogue TBU, Rack Mounted.



Analogue Telephone Balance Units

The analogue **HY-03** telephone hybrid range delivers high-quality performance at excellent value. It operates fully automatically, with integrated signal limiting, automatic call answering, and both local and remote line-hold control.

Digital Telephone Balance Units

The digital **DHY-04** telephone hybrid range provide high-performance telephone hybrid functionality, with typical line balance rejection of 76 dB. They operate fully automatically and incorporate echo cancellation, conferencing capability, front-panel input/output gain control, and LED metering of send and receive paths. Additionally they have auto-sensing AES/EBU or analogue XLR I/O, an Ethernet port for remote configuration and remote control, SNMP and DTMF dial up recognition. All variants are available in freestanding, 1U 19" & 1U 19" twin form.

VoLTE Telephone Balance Units

The **DHY-04V** is a single automatic 4G VoLTE hybrid designed for seamless integration of cellular calls into professional audio environments, such as broadcast studios. Featuring HD Voice, AES/EBU and analogue I/O, as well as Ethernet connectivity, it enables high-quality audio interfacing with professional systems over a mobile network. Available in freestanding, single 19" rack-mount, and twin configurations.



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 designed for reliable long-term recording and archive applications. It records high-quality MPEG audio to internal storage and provides automatic networked playback to PCs. With BWF compatibility and straightforward operation, it is well suited to 24/7 continuous 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.

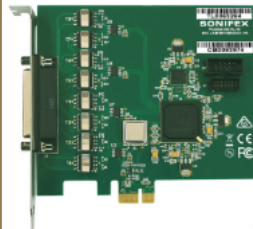


PC-AM 6-32 AM Stations Radcap PCIe Card.



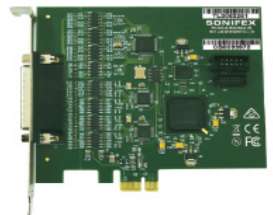
Professional Sound Cards:

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 Digiatorc 4, 4 Stereo AES-3 I/O PCIe Sound Card.

PC-AUR44 Auricon 4.4 PCIe Analogue Sound Card.



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.



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