

52-7567A

XC3 AES67 RAVENNA IP

Facts

- Internal module for XC3 and XD3 cores and 52-7510 concentrator
- Compatible with AES67 and RAVENNA enabled devices and virtual soundcards
- 2x Gigabit Ethernet
- Up to 64 streams (128 audio channels) in and 64 streams (128 audio channels) out¹
- Integrated sample rate converters
- SMPTE ST2110-30 conformance level C

Synchronisation

Configurable IEEE 1588-2008 PTPv2 synchronisation with support for 48 kHz and 44.1 kHz.

Redundancy

Redundancy option with SMPTE ST2022-7 seamless protection switching available.²

Control

Control via web interface, Ember+, AMWA NMOS IS-04 (IS-05 and IS-08 on roadmap).³
VLAN tagging for control data is possible.

32 GPIs and 32 GPOs for communication with multicast based
payout drivers available.⁴

Discovery and Announcement Protocols

SAP, mDNS, NMOS IS-04 (IS-05 and IS-08 on roadmap)³

¹ Depends on configuration and licensing, see maximum streams and audio channels section

² License 52-8541 extended feature upgrade AES67 required

³ License 52-8543 NMOS extensionfor AES67 required

⁴ License 52-8542 GPIO extension for AES67 required

DHD.audio

Datasheet

The screenshot displays the DHD.audio AES67 RAVENNA web interface. On the left is a navigation menu with options: Configuration, Overview (selected), Streams, GPIO, System, Settings, and Logout. Below the menu is a 'Switch Interface:' section with a dropdown menu showing 'AES67-1.52_TX.BKLV (this d...'. The main content area is divided into three columns: 'System Load' with three progress bars for 'Current System Load', 'Used TX Streams', and 'Used RX Streams'; 'System Status' showing 'Synchronisation' with 'Status' as 'MASTER', 'Sync Mode' as 'Masterslave', and 'Frequency' as '48 kHz'; and 'Device Information' listing 'AES67-1.52_TX.BKLV', 'Primary IP' (10.16.18.19), 'Secondary IP' (10.17.18.19), 'MAC Address' (00:0A:63:10:12:13), and 'Firmware Version' (6.2.9.13). Below these are two tables: 'Active TX Streams' (2) and 'Active RX Streams' (1). The TX table has columns for #, STREAM NAME, and AUDIO OUTPUT. The RX table has columns for #, SOURCE STREAM, and AUDIO INPUT.

#	STREAM NAME	AUDIO OUTPUT
1	Studio A PGM	CF: AES67 1/2 L, CF: AES67 1/2 R
2	TEL-CF	PGM 1 (Standard L, PGM 1 (Standard R

#	SOURCE STREAM	AUDIO INPUT
1	239.1.12.96	L, R

52-7567 Web Interface

Maximum streams and audio channels

Without 52-8541 license:

32 streams (64 audio channels) in and 32 streams (64 audio channels) out

With 52-8541 license and redundancy off:

64 streams (128 audio channels) in and 64 streams (128 audio channels) out

With 52-8541 license and redundancy on:

32 redundant streams (128 audio channels) in and 32 redundant streams (128 audio channels) out

The interface supports a maximum of 64 audio channels in one stream (in and out). Transmission and reception of more than 64 audio channels requires using 2 or more streams and 52-8541 license.

Links

Support - Documentation:

<https://support.dhd.audio/doku.php?id=aes67:start>

RAVENNA partner:

<https://www.ravenna-network.com/partners/a-f/dhd/>