

52-7567A

XC3 AES67 RAVENNA IP

Facts

- Internal module for XC3, XD3 and XS3 cores and 52-7510 concentrator
- Compatible with AES67 and RAVENNA enabled devices and virtual soundcards
- 2x Gigabit Ethernet
- Up to 32 streams (128 audio channels) in and 32 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-05³
 - NMOS security - Best Common Practices BCP-003-01
- 32 GPIs and 32 GPOs for communication with multicast based playout drivers available.⁴
- VLAN tagging for control data is possible.

Discovery and Announcement Protocols

SAP, mDNS, NMOS IS-04

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 extension for 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' with 'Synchronisation' details (Status: MASTER, Sync Mode: Masterslave, Frequency: 48 kHz) and a link to '>Synchronisation Settings'; 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, with two rows: 1 Studio A PGM (CF: AES67 1/2 L, CF: AES67 1/2 R) and 2 TEL-CF (PGM 1 (Standard L, PGM 1 (Standard R)). The RX table has columns for #, SOURCE STREAM, and AUDIO INPUT, with one row: 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 (ST 2022-7 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

DHD Support Documentation:

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

RAVENNA:

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

AMWA:

<https://www.amwa.tv/members>