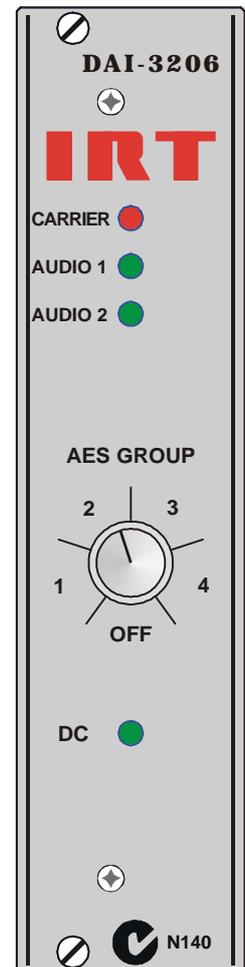


270 Mb/s SDI Digital & Analogue Audio Inserter Type DAI-3206

Features:

- Standard 75 Ω 270 Mbit/s SDI input
- Inserts audio – either 2 AES signals containing 2 channels each, 4 analogue channels or a combination of AES and analogue pairs
- 110 Ω (standard) or 75 Ω AES inputs
- Selectable re-sampled or non re-sampled modes
- Supports SMPTE 272M-A synchronous 48 kHz insertion (resampled mode)
- Supports SMPTE 272M-AD asynchronous 48 kHz insertion (non resampled mode)
- 20 bit audio supported
- Z, C, U data preserved
- Automatic EDH correction and/or insertion
- Ability to replace existing embedded audio
- Supports 525 & 625 line formats
- Indicators / external alarms for loss of carrier & audio
- Automatic SDI input cable equaliser to 250 m
- Two 270 Mb/s SDI outputs for connection to additional units



General:

The DAI-3206 is a high performance audio embedder for 270 Mbit SDI video signals. It supersedes the earlier DAI-3200 audio embedder.

Existing embedded data packets may be optionally removed and/or replaced via link settings on the PCB.

Each DAI-3206 is capable of inserting one audio group (2 AES signals, 4 analogue channels or combination of AES and analogue pair channels) into an existing SDI video stream. Group position selection is made by the front panel local control. Note that when inserting 2 AES streams, both channels must be frequency locked to each other. Analogue audio is automatically locked to the other AES signal, if present, or else to the SDI video input.

The DAI-3206 supports AES/EBU synchronous/asynchronous 48 kHz, 20-bit audio data packets.

An audio presence indicator is provided for each input. If one AES or analogue audio pair is missing then those particular channels are set to zero. If both AES and/or analogue audio pairs are missing (dependent on mode selected), then no packets are inserted.

The DAI-3206 complements the DAX-3206 audio extractor.

The DAI-3206 is fabricated in IRT's standard Eurocard format and may be housed in a variety of IRT Eurocard frames alongside other standard modules.

DAI-3206 Technical Specifications

SDI input:

Number 1 (BNC).
 Impedance 75Ω terminated.
 Equalisation Automatic for cables lengths <250 m (Belden 8281).
 Format 270 Mbit/s video with or without embedded audio serial data to SMPTE 259M-A/D.

SDI outputs:

Number 2 (BNC).
 Type 75Ω sourced.
 Format Regenerated and re-clocked.

AES/EBU inputs:

Number 2 x 48 kHz synchronous/ asynchronous, 20-bit audio data packets.

Impedance 75 Ω unbalanced, solder link selectable,
 110 Ω balanced, standard.

Analogue Audio inputs:

Number 4 (Left 1/Right 1, Left 2/Right 2)
 Type Balanced Phoenix plug in terminal blocks.
 Input level +24 dBu at Full Scale
 Impedance 10 kΩ

Alarm output:

N/C Relay contacts

Other:

Power requirements 28 Vac CT (14-0-14) or ± 16 Vdc.
 Power consumption <7 VA.
 Temperature range 0 - 50° C ambient.

Mechanical

Suitable for mounting in IRT 19" rack chassis with input output and power connections on the rear panel.

Finish: Front panel
 Rear assembly

Grey background, silk-screened black lettering & red IRT logo.
 Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals.

Dimensions

30 mm x 3 U x 220 mm IRT Eurocard.

Accessories supplied with module

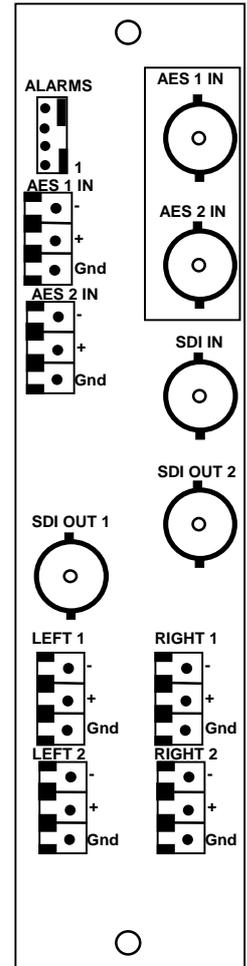
Rear connector assembly including matching connectors for audio and alarms.

Related Modules

DAX-3206 digital and analogue audio extractor.

Optional accessories

TME-6 module extender card.



Due to our policy of continuing development, these specifications are subject to change without notice.

Detailed specifications available from:

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 26 Hotham Parade
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Local Agent:

IRT can be found on the Internet at:
<http://www.irtelectronics.com>