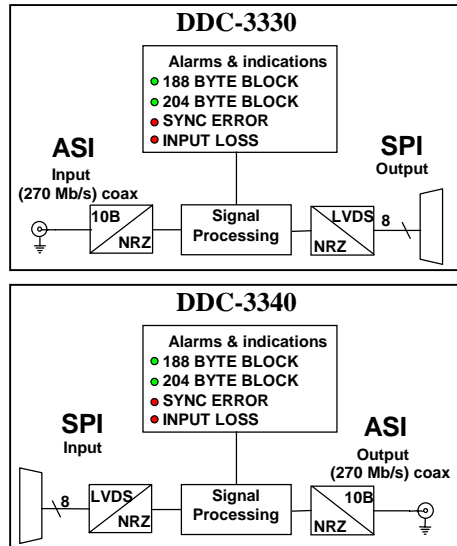


Functional diagrams:



Features:

- Rate independent from 1.5 Mb/s to 50 Mb/s.
- Modular format compatible with IRT fibre optic, distribution amplifier and switcher modules.

Applications:

- ASI conversion for transport via coaxial cable or fibre optic links to distant sites
- Interfacing various MPEG2 TS formats.
- Block length indication and error detection.
- Connections to modulators or test equipment.
- Signal monitoring for remote alarm indications.

General:

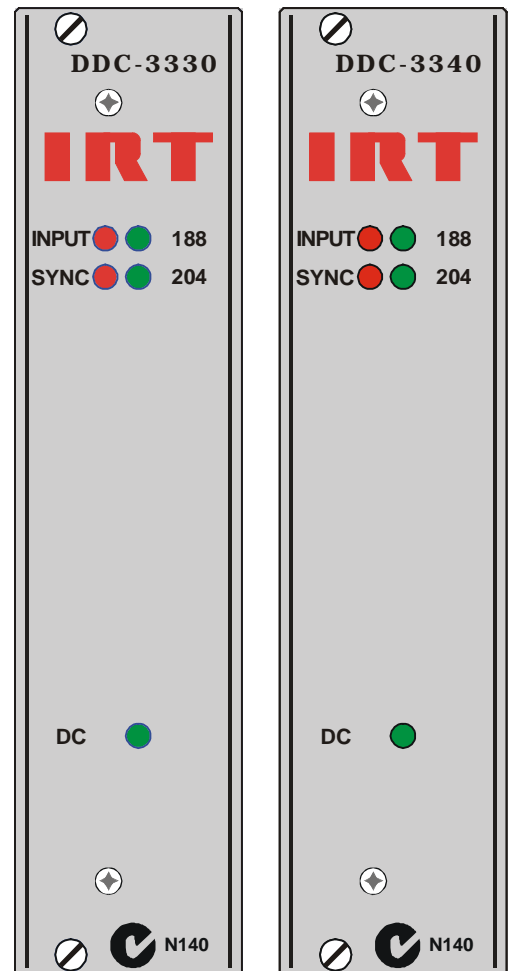
The DDC-3330 and DDC-3340 are part of a family of data transcoders for converting between the commonly used MPEG2 Transport Stream formats in the broadcast industry for video distribution.

Any SPI input data rate within the range of 1.5 to 50 Mb/s will be converted to the corresponding rate within a 270 Mb/s ASI stream by the DDC-3340. The DDC-3330 provides the complementary conversion from ASI to SPI format.

The SPI (Synchronous Parallel Interface MPEG2) format is convenient for data manipulation, but is not suited to transporting signals over more than a few metres.

The ASI (Asynchronous Serial Interface 270 Mb/s) format can easily carry data over several hundred metres on coaxial cable or many kilometres on fibre optic cable.

The DDC-3330 & 3340 do not perform any signal correction or alter the format of the MPEG2 transport stream. They only change the transport stream electrical format and monitor the signal for MPEG2 transport stream sync errors.



DDC-3330 & DDC-3340 Technical Specifications

(Preliminary)

DDC-3330:

Input: 1 x ASI-C
Impedance 75Ω.
Connector BNC.
Return Loss >15 dB 5 MHz to 270 MHz.
Equalisation Automatic, better than 200 metres at 270 Mb/s for Belden 8281 or equivalent cable.

Output: 1 x SPI,
Electrical characteristics LVDS drivers.
Connector 25 pin 'D' female.

DDC-3340:

Input: 1 x SPI.
Electrical characteristics LVDS receivers.
Connector 25 pin 'D' female.

Output: 1 x ASI-C
Impedance 75Ω.
Level 800 mVp-p.
Connector BNC.

Power Requirements 28 Vac CT (14-0-14) or ± 16 Vdc.
Power consumption <5 VA.

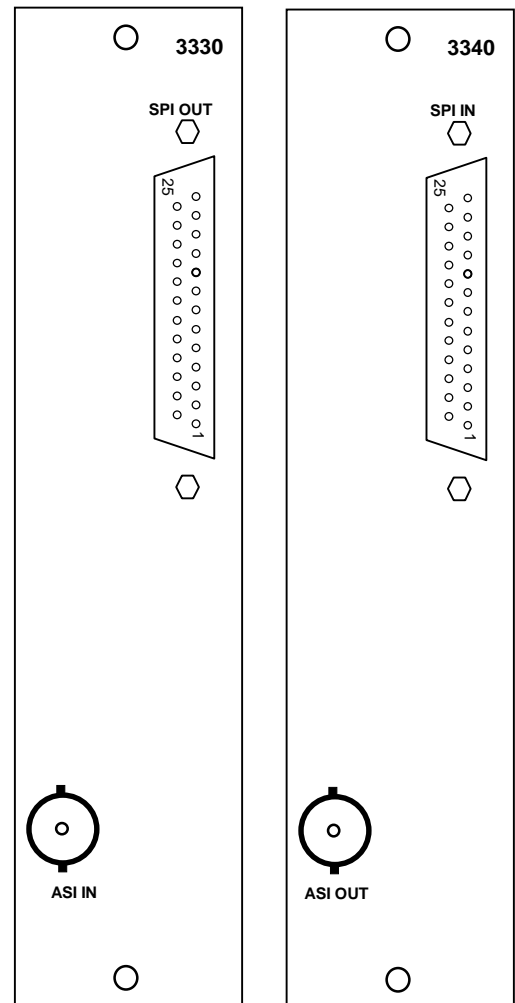
Other:
Temperature range 0 - 50° C ambient.

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

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

Dimensions 6 HP x 3 U x 220 mm IRT Eurocard.

Supplied accessories Rear connector assembly.



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

Detailed specifications available from:

Manufacturer:
IRT Electronics Pty Ltd

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Phone: +61 2 9439 3744
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IRT can be found on the Internet at:
<http://www.irtelectronics.com>