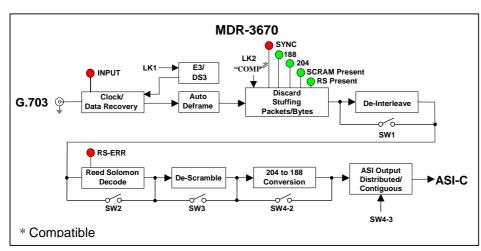


G.703 to ASI Network Interface Adapter Types MDR-3670

Functional diagram:



Features:

- Wide Range of G.703 to ASI conversions
- E3 or DS3 operation with automatic DS3 De-framing
- Reed Solomon correction
- De-interleaving
- De-scrambling
- Packet length indication
- Distributed or Contiguous Packet Mode

MDR-3670 ALARM INPUT INPUT 188 SYNC 204 R - S SCRAM FRAME R - S SCRAM REED SOLOMON INTERLEAVE UP - DECODE DOWN - OFF DC N140

General:

The MDR-3670 is part of a family of data transcoders for converting between the commonly used MPEG2 Transport Stream formats in the broadcast industry for video distribution.

The MDR-3670 operates with either an E3 (34.368 Mb/s) or DS3 (44.736 Mb/s) G.703 rates.

There are several industry modes of encoding that can be decoded by the MDR-3670. They are loosely classified as follows:

Standard: IRT MDT-3570, DDC-3480

Upstream: Similar to above Downstream: Packet stuffed Compatible: Legacy framing

This range covers most other manufacturer's equipment.

Front panel switches allow Reed Solomon correction and/or the removal of interleaving and scrambling (energy dispersal). On board switches allow 204 to 188 conversion, after decoding, and the output ASI packet structure to be set to either "Distributed" or "Contiguous" mode.

The MDR-3670 is fabricated in IRT's standard Eurocard format and may be housed in a variety of IRT's frames.

3670-mdr.bro.doc 12/11/2004

MDR-3670 Technical Specifications

Inputs:

Type $1 \times G.703, 75\Omega$ BNC connector.

G.703 Rate E3 (34.368 Mb/s) or DS3 (44.736 Mb/s), selectable.

Outputs:

Type 1 x ASI-C 75Ω , 800 mVp-p, BNC connector.

(distributed or contiguous – link selectable)

Alarms:

Major Relay NO/NC link selectable,

(Relay energised when Input Sync is obtained).

Minor Relay NO/NC link selectable,

(Relay energised when Input Sync is obtained and when there is

a valid G.703 output rate).

Power Requirements 28 Vac CT (14-0-14) or \pm 16 Vdc.

Power consumption <5.5 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 including matching connector for

alarm output.

Optional accessories TME-6 module extender card

PL4
1 2-MAJOR 3-MINOR 4-N1
3 4 5-N2

SK2
O ASI OUTPUT

G.703 INPUT

0

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

Detailed specifications available from:

Local Agent:

Manufacturer: IRT Electronics Pty Ltd

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3670-mdr.bro.doc 12/11/2004