IRT

ASI to ASI
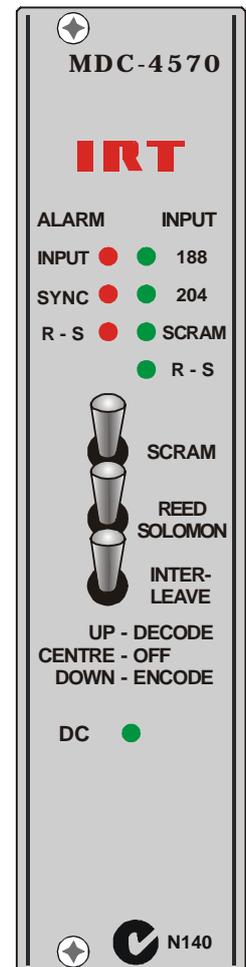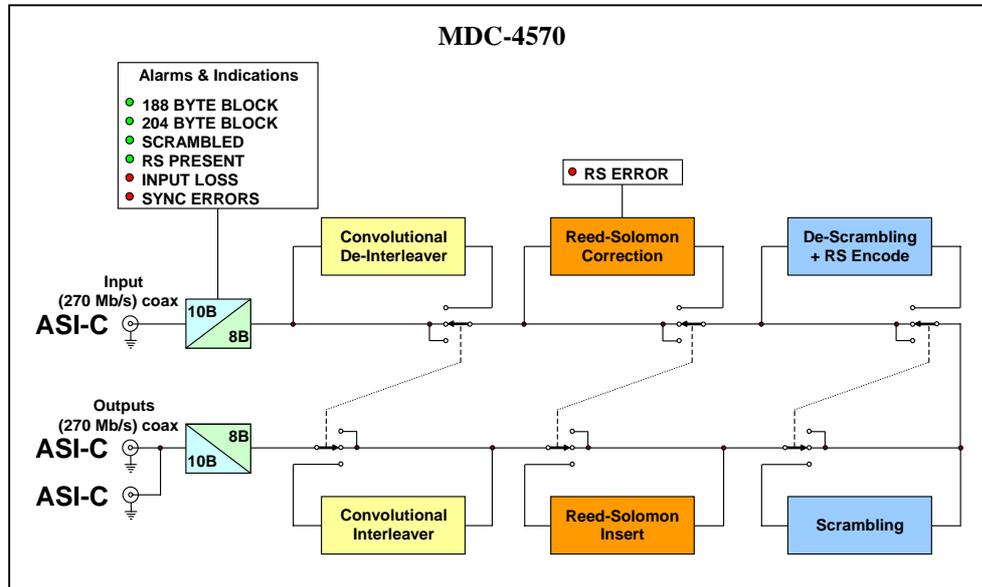# Network Interface Adapter
Types MDC-4570

Functional diagram:

Features:

- **ASI to ASI conversion.**
- **Reed Solomon encoding & decoding.**
- **Interleaving or de-interleaving.**
- **Scrambling or de-scrambling.**
- **Packet length indication.**
- **Supplement to test equipment.**
- **188 to 204 & 204 to 188 byte conversion, where appropriate.**
- **SNMP capable,**

General:

The MDC-4570 is an ASI to ASI data transcoder for converting between the commonly used MPEG2 Transport Stream formats in the broadcast industry for video distribution.

The MDC-4570 can operate at ASI rates from 2 Mb/s to the full 213 Mb/s rate. When set up for encoding, it can perform 188 to 204 byte conversion, scrambling, RS encoding and interleaving. When set up for decoding, it can perform de-interleaving, RS correction, descrambling and 204 to 188 byte conversion. All functionality is switch selectable.

The MDC-4570 finds particular use in protecting ASI streams when interfacing through various types of links, such as microwaves, satellite, or Telco G.703 links.

SNMP (Simple Network Management Protocol) is available for monitoring of switch settings and signal parameters when used in an IRT frame fitted with SNMP capability.

The MDC-4570 is designed to fit IRT's standard Eurocard frames and may be used alongside any other of IRT's analogue or digital Eurocards.

MDC-4570 Technical Specifications

Input :

Type	1 x ASI, 75Ω BNC connector, or
ASI Rate	2 Mb/s to 213 Mb/s

Outputs :

Type	2 x ASI-C 75Ω, 800 mVp-p, BNC connector.

Alarms:

Major	Relay goes open circuit on loss of Sync, or power loss.
Minor	Relay goes open circuit when an uncorrectable error occurs, (or a correctable error if switch SW4-5 is ON), or power loss.

Power Requirements: 28 Vac CT (14-0-14) or ± 16 Vdc.

Power consumption   2.5 VA.

Connectors:
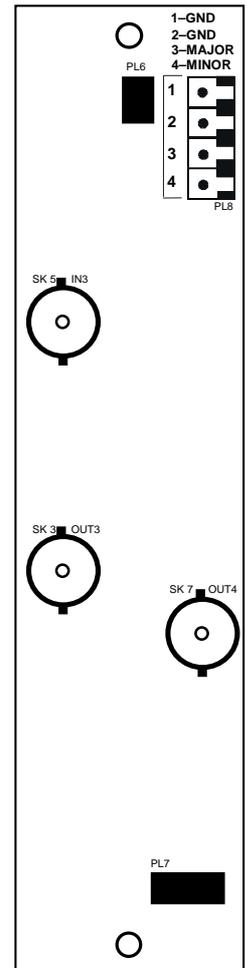
Other:

Temperature range	0 - 50° C ambient
Mechanical	
Finish: Front escutcheon	Grey background, 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
Standard accessories	Rear connector assembly including matching connector for alarm output.

1–GND
2–GND
3–MAJOR
4–MINOR

PL6

1
2
3
4

PL8

SK 5   IN3

SK 3   OUT3

SK 7   OUT4

PL7

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

Detailed specifications available from:

Manufacturer:	**Local Agent:**	**IRT can be found on the Internet at:**
IRT Electronics Pty Ltd		**http://www.irtelectronics.com**

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