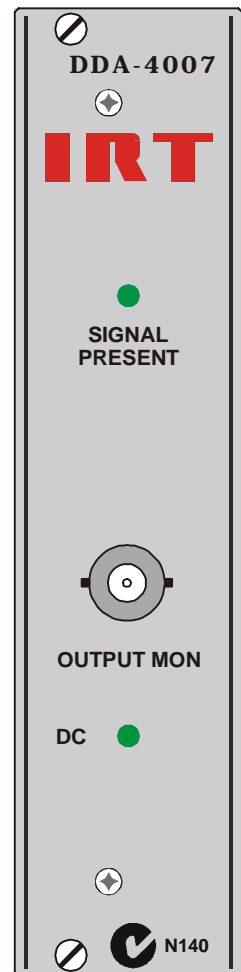
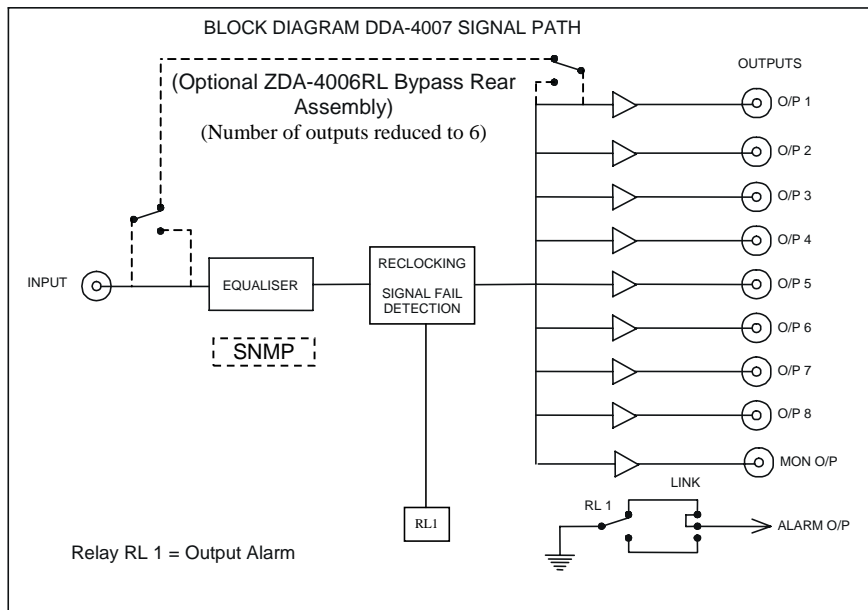


270 Mb/s ASI/SDI 8 O/P Reclocking Distribution Amplifier Type DDA-4007



Features:

- For use as buffer or distribution amplifier.
- 8 x in-phase 270 Mb/s ASI or SDI reclocked outputs.
- Automatic input equalisation to 250 metres.
- Automatic output muting on no input.
- Front panel indicators provide monitoring of presence of input signal at 270 Mb/s.
- Optional plug-in SNMP monitoring module.

General:

The DDA-4007 270 Mb/s serial digital video distribution amplifier provides the user with a single standard module to cover a wide range of distribution and monitoring functions for SDI or ASI signals.

The DDA-4007 supersedes the DVA-3007 and provides all of its predecessor's functions together with the added option of a Simple Network Management Protocol (SNMP) monitoring module for use with IRT's SNMP system frame.

Due to the fact that standard loop through techniques used in the analogue domain are unsuitable to the digital domain most digital equipment comes with no facility to route the input signal to other locations. As a result a VDA is required at almost every point in the digital chain.

Serial digital signals also suffer severe deterioration over relatively short cable distances. The DDA-4007 provides a means of extending the working distances that can be achieved by equalising, reclocking and re-transmitting the data mid route.

Where a large number of reclocked outputs are required the DDA-4007 may be used to provide reclocking and its outputs fed to one or more non reclocking DA's to provide the number of outputs required.

This provides a more economic solution than using multiple reclocking DA's and minimises jitter increase due to unnecessary re-clocking.

An optional rear assembly, ZDA-4006RL (sold separately), provides a bypass relay to switch the Input (SK1) to Output 1 (SK2) in the event of a power failure. When this bypass rear assembly is used, the number of outputs is reduced to 6.

The DDA-4007 is designed to fit IRT's standard Eurocard frames as well as IRT's 4000 series frame for use with IRT's SNMP system and may be used alongside any other of IRT's analogue or digital Eurocards.

DDA-4007 Technical Specifications

Video input:

Number 1.
 Impedance 75 Ω.
 Return loss >20 dB 5 MHz to 270 MHz.
 (>15 dB with optional ZDA-4006RL bypass rear assembly)
 Equalisation Automatic, better than 250 metres at 270 Mb/s for Belden 8281 or equivalent cable (reduces to approx. 200m when LK2 is closed).

Video outputs:

Number 8 ASI or SDI plus one front panel monitoring output.
 Type Reclocked.
 Level 800 mV ±10% into 75 Ω.
 Impedance 75 Ω.
 Return loss >20 dB 5 MHz to 270 MHz.
 (>15 dB with optional ZDA-4006RL bypass rear assembly)
 DC offset Nil.

Performance:

Reclocking Factory set for 270 Mb/s operation.
 Rise time <1.0 ns, (700 ps typically).
 Residual jitter <0.1 UI (measured with up to 300m of Belden 8281 or equivalent cable).

Connectors:

BNC 75 Ohms.

Indicators:

Power LED (green) for +5 V.
 Signal present LED (green) when signal present.

Alarm:

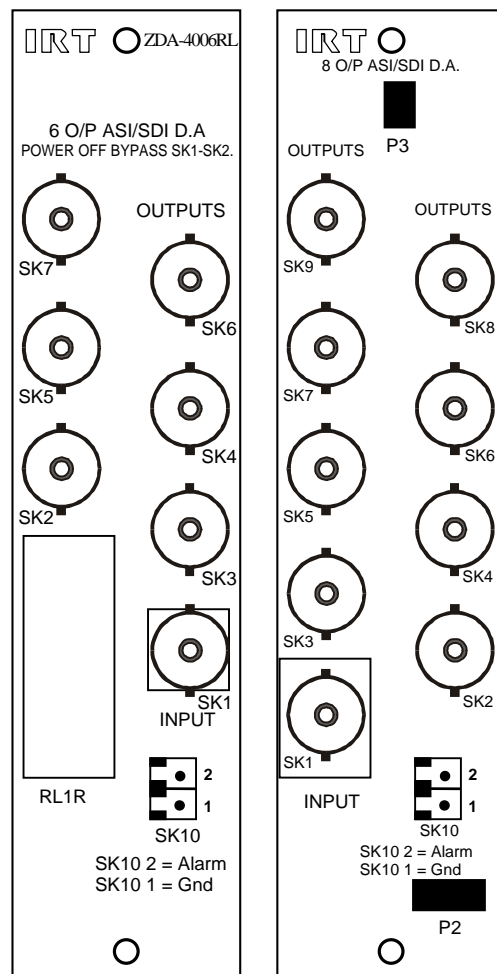
Signal loss Contact closure. Link selectable NO/NC.

Power requirement:

Voltage 28 Vac CT (14-0-14) or ±16 Vdc
 Consumption 2.5 VA (including ZDA-4006RL optional rear assembly).

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, 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 with matching connector for alarm output.
 Optional accessories ZDA-4006RL relay bypass rear assembly (6 O/P).
 SMU-4000 SNMP plug-in module for use with 4000 series frame fitted with SNMP "Agent".



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

Detailed specifications available from:

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Local Agent:

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