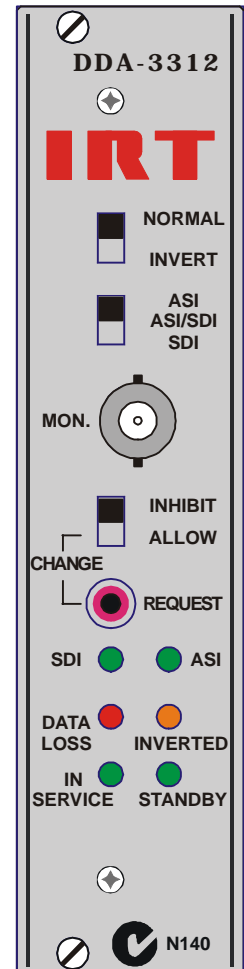
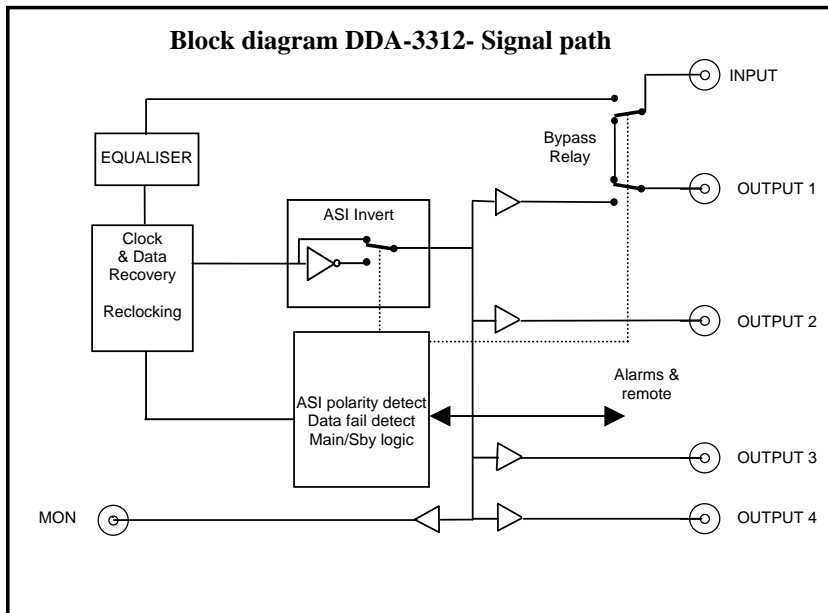


ASI/SDI Path Protection Amplifier Type DDA-3312



Features:

- **SDI & DVB-ASI compliant.**
- **Adaptive cable input equalisation.**
- **Data regeneration.**
- **Polarity alarm and inversion capability for ASI.**
- **Protection switching capability.**
- **Power fail signal bypass.**
- **External Alarms.**
- **Compatible with other IRT Eurocard modules and frames.**

General:

The DDA-3312 is a data distribution amplifier that may be used with either ASI or SMPTE SDI 270 Mb/s signals.

Four outputs are provided at the rear of the module with an additional output for monitoring purposes on the front panel. The primary output is controlled by relays to provide a bypass signal from the input during a power failure.

The DDA-3312 incorporates a protection facility for switching two outputs to signals from a companion DDA-3312 when a fault is detected.

In SDI mode a loss of input or EAV is used to indicate failure.

In ASI mode a loss of input or absence of 188/204 byte packet sync is used.

In both modes an overriding changeover request may be made either locally or by remote control.

Indicators are provided on the front panel for:

- SDI signal detected
- ASI signal detected
- ASI signal inverted
- Data loss
- Module in service
- Module in standby

External alarm signals are also available on the rear of the module.

Changeover-inhibit and changeover-request switches are provided on the front panel for use where modules are linked in pairs for redundancy.

For this configuration, a special double width rear assembly (type ZDA-3311RH) is required to link the signal and logic sections of two modules.

DDA-3312 Technical specifications

ASI/SDI input:

Number	1.
Impedance	75 Ω .
Return loss	>15 dB 5 MHz to 135 MHz.
Equalisation	Automatic, better than 200 metres at 270 Mb/s for Belden 8281 or equivalent cable.

ASI/SDI outputs:

Number	2 switched, and 2 unswitched outputs located on rear assembly and one located on front panel.
Type	Reclocked.
Level	800 mV \pm 10% into 75 Ω .
Return loss	>15 dB 5 MHz to 135 MHz.
DC offset	Nil.
Impedance	75 Ω source terminated.

Performance:

Rise time	<1.0 ns, (700 ns typically).
Residual jitter	<200 ps, (150 ps typically) at 270 Mb/s.

Controls & alarms:

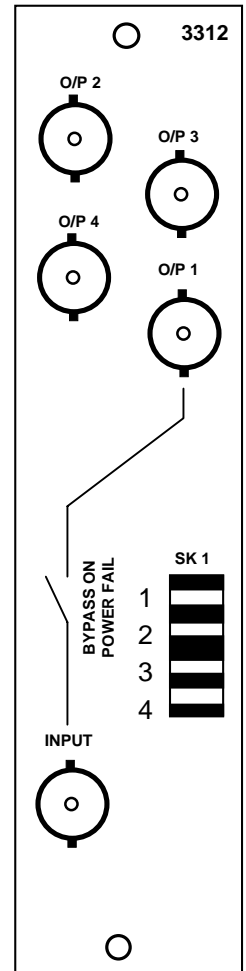
General alarm.	Relay contact closure to Gnd on fail.
Signal fail.	Relay contact closure to Gnd on fail.
Changeover request.	Contact closure to Gnd.

Connectors:

ASI/SDI:	BNC.
Alarm:	Krone LSA plus.

Other:

Power requirements	28 Vac CT (14-0-14) or \pm 16 Vdc. <5.5 VA
Temperature range	0 - 50° C ambient.
Mechanical	Suitable for mounting in IRT 19" Eurocard rack chassis with input output 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	31 mm x 3 U x 220 mm IRT Eurocard.
Standard accessories	DDA-3312 rear connector assembly.
Optional accessories	Instruction manual. ZDA-3311RH double rear assembly, for handshake connection of two DDA-3310's.



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

Detailed specifications available from:

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<http://www.irtelectronics.com>