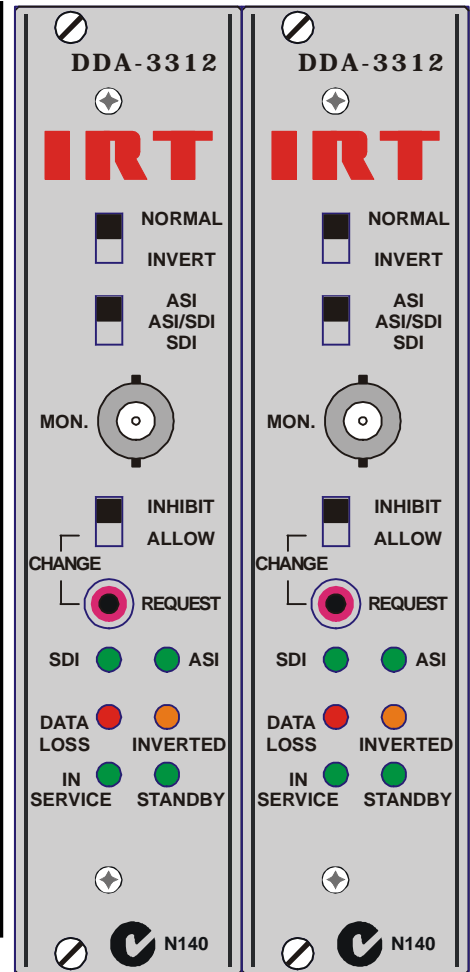
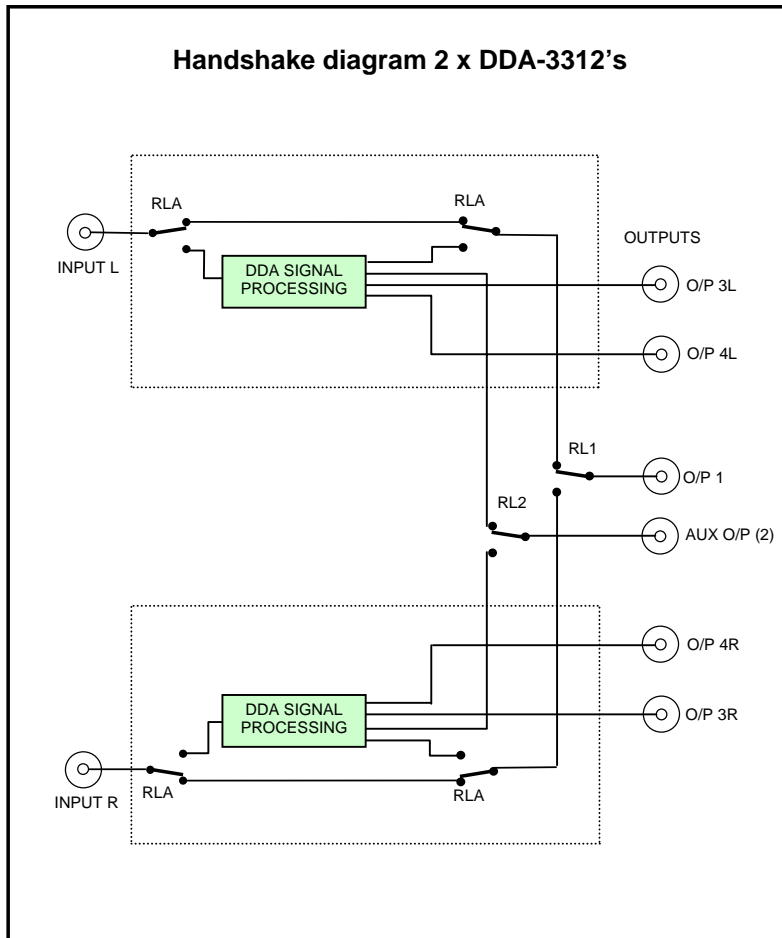


## Handshake connection Type ZDA-4311RH ASI / SDI Data Amplifiers



### Features:

- Redundant pair operation.
- Protection switching facility.
- External alarms from each module.
- One output bypass on power loss.

### General:

The DDA-3312 is an ASI / SDI data distribution amplifier that incorporates a protection switching facility for the switching in of signals from a standby module when a fault is detected.

To facilitate this mode of operation, the ZDA-4311RH provides all of the required signal and logic interconnections between two modules.

The individual module alarms are also provided for remote monitoring purposes.

Two switched outputs are provided at the rear of the module with two additional outputs for monitoring purposes of each module. The primary output is controlled by relays to provide a bypass signal from the input during a power failure.

Changeover-inhibit and changeover-request switches are provided on the front panel for local manual control.

# ZDA-4311RH Technical Specifications

## Controls & alarms:

### Outputs:

Power Fail Alarm	Contact closure to ground if power has failed.
General Alarm	Contact closure to ground if:- a. Data Loss is detected OR b. Absence of Packet Syncs in ASI, or End of Active Video (EAV) missing in SDI.
<i>In Service (Main) Path</i> Indication	Transistor switch to ground if card is active (if DA version is equipped).

<b>Connectors:</b>	ASI/SDI:	BNC.
	Alarm:	Krone LSA plus.
	<i>In Service (Main) Path:</i>	Krone LSA plus.

### Changeover logic:

A changeover to the companion module will occur under any of the following conditions:

- For ASI: Loss of input signal or absence of Packet Syncs;
- For SDI: Loss of input signal or a missing end of active video (EAV);
- Loss of power

In all of the above cases switching will only occur if:  
companion module is able to provide an output free of the same defects and  
changeover inhibit switch is not activated on either module.

### Priority logic:

The priority switching in normal mode follows non reverting logic which dictates:

In the event of failure of main then standby DDA will assume control and become *Main* causing the failed path DDA to become *Standby*.

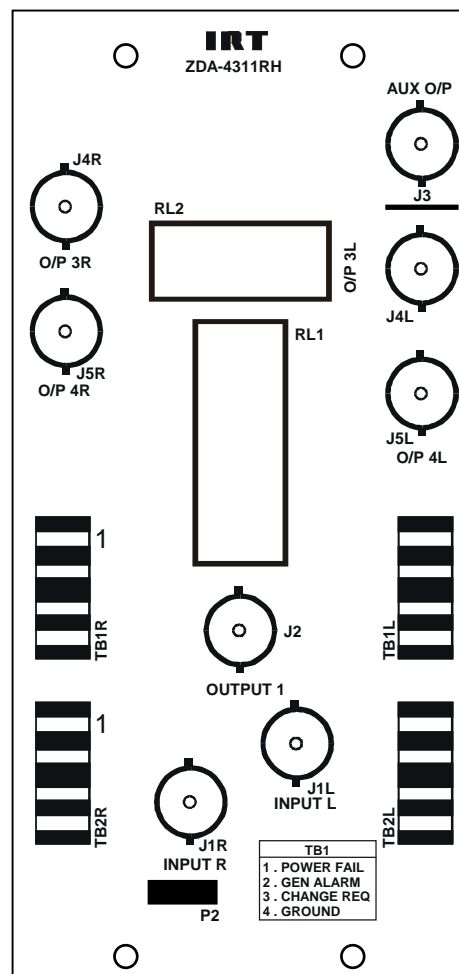
This implies that when the failed path is restored that it will remain as *Standby* and not become *Main* unless either a failure of *Main* occurs or a manual changeover is requested.

### Power on reset.

When power is applied to the pair, the *power on reset* signal will set the module which was last enabled as *Main* as *Main* and the other module will be forced to act as *Reserve*.

When power is applied to a pair for the first time it may be necessary to force the desired module to become main by pressing the *Change Request* button on the front panel of the desired module. The *Main* module will be indicated by the *In Service* LED being lit on the front panel.

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



Detailed specifications available from:

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