

ADA-1021

Introduction

L'ADA-1021 enables distribution of analogue signal, audio or time code. It can be configured for monaural (1 input / 8 outputs) or stereo (1 input / 4 outputs) applications.

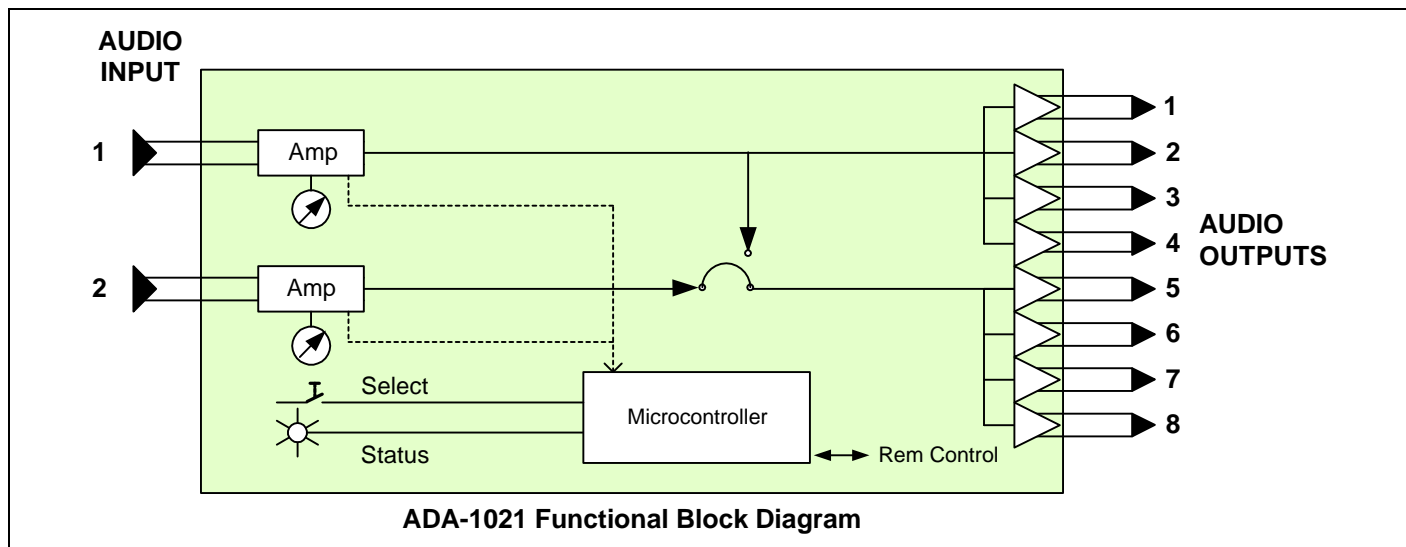
All modules of the DENSITE Series include a push button on the card front edge, which can assign the front panel controller to consultation and adjustments of the board parameters. A multi-coloured Led, visible with the door closed, reports the card status.

The module gain is trim controlled (-8 to +32 dB) from the card edge and set with a jumper.

The ADA-1021 requires a 'double' rear connector panel.

Features

- Distribution amplifier 1 input / 8 outputs or 2 x 1 input / 4 outputs
- Balanced input and outputs
- Gain trim adjustment on card (-8 to +32 dB)
- Status LED and remote reporting
- Alarm configuration: absence signal, overload
- Easy to install audio connectors



Specifications

Input

Balanced
Signal: analogue audio
Impedance: > 20 k Ω
Common mode
rejection: > 50 dB

Output

Balanced
Signal: balanced analogue audio
Impedance: < 50 Ω

Processing performance:

Gain: -8 to +32 dB
Max. Level: +25 dBu
SNR: < -95 dBu
..... 20 Hz to 20 kHz unweighted
Distortion: < -85 dB (20 Hz to 20 kHz) @ +23 dBu
Freq. response: ± 0.2 dB (20 Hz to 20 kHz)
Overload threshold: +23 dBu
Signal absence
-Fixed threshold: -36 dBu
-Adjust. Delay: de 0 to 255 s

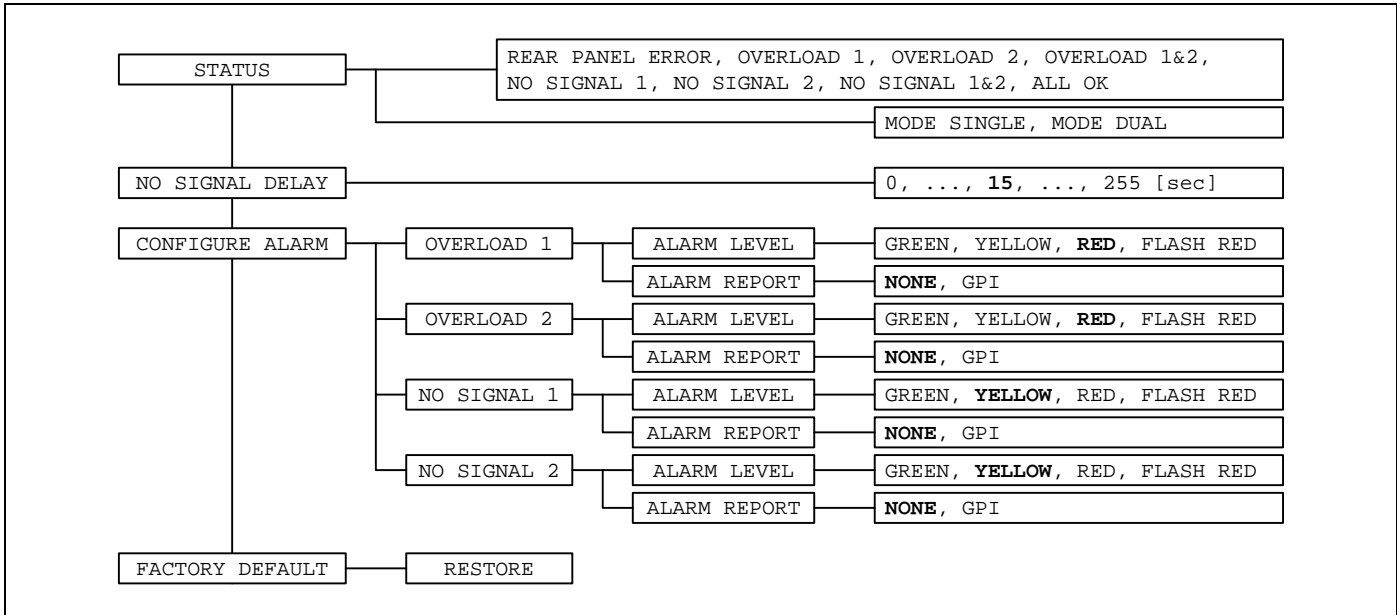
Miscellaneous

Power: 7 W

Menu Introduction

Most parameters are accessed and changed via an easy-to-use menu. The flow chart below outlines the entire ADA-1021 menu path. Each menu is described throughout this section.

The procedure and the operation mode are described in the common paragraph of the DENSITÉ Manual. The menu organisation is made out of a main menu and several sub-menus. A press on the [SELECT] front panel push button accesses to the menu. A lack of activity turns off the display. Default values are written with bold characters.



Menu Description

{STATUS}

Displays status of the different board alarms. The higher-level alarm is displayed, even if not configured to activate the *STATUS* Led. **ALL OK** indicates an absence of alarm.

REAR PANEL ERROR Indicates an absence of the rear panel or an incompatibility between the module and the rear panel. The *STATUS* led turns on flashing red.

OVERLOAD Indicates an internal signal level higher than +23 dBu.

NO SIGNAL Indicates an internal signal level lower than -36 dBu during a user defined period.

MODE SINGLE/DUAL Displays the module configuration.

{NO SIGNAL DELAY}

NO SIGNAL DELAY Signal absence is declared when the level signal is lower than -36 dBu during the selected period, it can be adjusted from 0 to 255 s. The default value is set to 15 s..

{CONFIGURE ALARM}

It is possible to associate the *STATUS* Led colour and/or a GPI relay activation to each detected error.

Alarm relay activation depends of the *ENABLE* selection of the controller board menu GPI REPORT.

ALARM LEVEL Associates to each error the *STATUS* led colour: GREEN, YELLOW, RED and FLASH RED. This selection has no influence on the {STATUS} menu display.

ALARM REPORT The default value NONE is assigned to errors. Alarm relay activation will be associated to an error when GPI is set.

{FACTORY DEFAULT}

RESTORE Set the module with the factory default parameters.

Status and Report

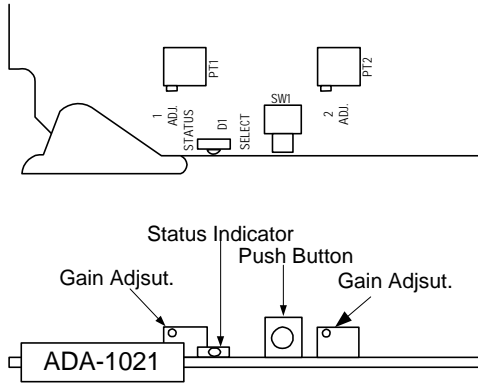
This table shows the front Led colour and the report action according to the level of a given error condition. Notice that the “Flashing Yellow” indicates that the SELECT button on the front panel has been pushed, and the card is being accessed via the communication protocol.

	Non requested messages	GPI Report	Green	Yellow	Red	Flashing Red	Flashing Yellow
Overload on Input 1	✳				✳		-
Overload on Input 2	✳				✳		-
No signal detected on Input 1	✳			✳			-
No signal detected on Input 2	✳			✳			-
Card accessed via the communication protocol	-	-	-	-	-	-	Yes
Rear Panel not matching	-	-	-	-	-	Yes	-

Factory default. ✳

Note: The non requested message affectation to an alarm status can only be accessed by the communication protocol (serial port)

Front Edge Presentation

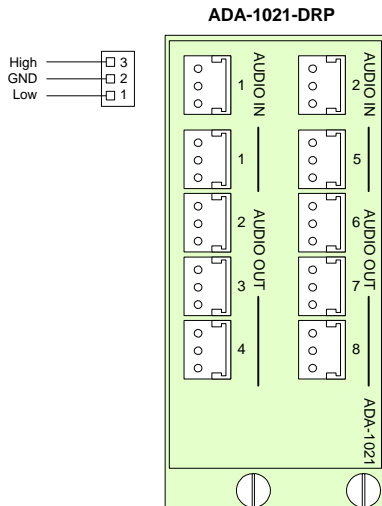


Configuration

PT1	GAIN adjustment
1 GAIN	Trimmer for fine adjustment of the gain with an 8 dB range.
PT2	
2 GAIN	
JP1 - JP2	The adjustment range is determined by the JP1 or JP2 position. -8 to 0, 0 to 8, 8 to 16, 16 to 24, 24 to 32,
JP 3	JP 3 sets the operating mode Single = 1 x 8 or Dual = 2 (1 x 4)

Connections

ADA-1021 is used with the double rear panel ADA-1021-DRP that includes 1 input to 8 outputs (single mode) and 2 x 1 input to 4 outputs (dual mode).



Board Presentation

