

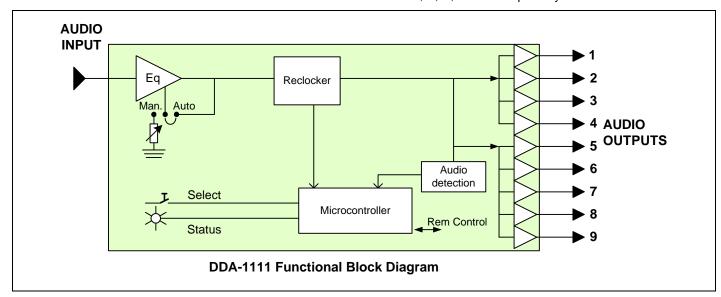
DDA-1111

Introduction

The Digital Audio Distribution Amplifier DDA-1111 supports AES-3id 75 Ω and provides 9 outputs. The input features clock regeneration for reduced jitter and signal restoration. A signal detection stage permits to control the content of the audio signal. A multi-coloured Led, visible with the door closed, report the card status. The DDA-1111 requires a "single" or a "double" rear connector panel.

Features

- Digital distribution amplifier 1 input 4 or 9 outputs
- AES-3id audio unbalanced input
- · Remote control of carrier quality
- Silence detect with user adjustable delay and threshold
- · Status Led and remote reporting
- Signal regeneration
- V, U, C, P bits transparency



Specifications

Input

Outputs

Impedance:.....75 $\boldsymbol{\Omega}$ unbalanced

Return loss: 15 dB

Jitter reduction:>15 dB (@ 100 kHz)

Specific jitter:<0.005 UI pp (700 Hz to 100 kHz)

Signal Processing

Sampling:.....28 to 100 kHz Processing delay:<12 μs @ 48kHz Signal absence

- threshold:.....-48 / -72 dBFS (6 dB step)

- delay:de 0 to 255 s V, U, C, P bits transparency

Miscellaneous

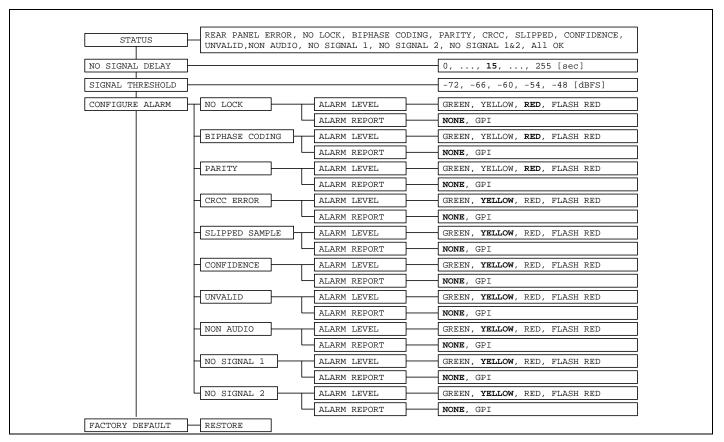
Power: single: 1.4 Wdouble: 2 W

Specifications are subject to change without notice.

Menu Introduction

Most parameters are accessed and changed via an easy-to-use menu. The flow chart below outlines the entire DDA-1111 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.



UNVALID

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

NO LOCK Indicates that the input stage is not locked on the incoming AES.

STATUS led turns on flashing red.

BIPHASE CODING Indicates a biphase coding error.

PARITY Indicates a parity error.

CRCC Indicates a CRCC error.

SLIPPED Indicates a sample slipping.

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CONFIDENCE Indicates an input signal up to be low.

NON AUDIO Indicates the audio content is not

linear PCM samples.

Indicates an invalid sample.

NO SIGNAL Indicates an internal signal level lower than the selected threshold during a

user defined period.

{NO SIGNAL DELAY}

NO SIGNAL DELAY

Signal absence is declared when the level signal is lower than the signal threshold during the selected period, it can be adjusted from 0 to 255 s. The default value is set to 15

{SIGNAL THRESHOLD}

SIGNAL THRESHOLD

The absence signal threshold can be adjusted from -72 to -48 dBFS by 6 dB steps. The default value is -60 dBFS.

{CONFIGURE ALARM}

t 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 DEFAUT}

RESTORE Set the module with the factory

default parameters.

Status and Report

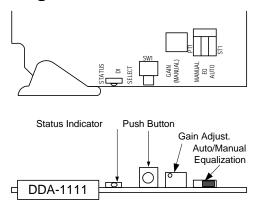
This table shows the front Led colour and the report action according to the level of a given error condition. Notice that the "Flashing Yellow" Status LED indicates that the SELECT button on the front panel has been pushed, and the card is being accessed via the communication protocol.

	Serial	GPI	Green	Yellow	Red	Flashing	Flashing
	Report	Report				Red	Yellow
NO LOCK on digital input	٥				•		-
Biphase Coding Error	٥				•		-
Parity Error	٥				•		-
CRCC Error	٥			٥			-
Slipped Sample	٥			٥			-
Confidence	٥			٥			-
Unvalid	٥			٥			-
Non Audio	٥			٥			-
No signal detected on Input 1	٥			٥			-
No signal detected on Input 2	٥			٥			-
Card accessed via the communication protocol	-	-	-	-	-	-	Yes
Rear Panel not matching	-	-	-	-	-	Yes	-

Factory default: 3

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

Front Edge Presentation

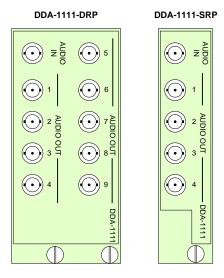


Configuration

PT1 GAIN (MANUAL)	CABLE EQUALIZATION ADJSUTMENT Trimmer for fine adjustment of the input signal equalization
ST1 MANUAL / AUTO	MANUAL / AUTOMATIC EQULAIZATION SELECTION When the cable length is known, best results can be obtained in the manual setting.

Connections

DDA-1111 is used with the single rear panel DDA-1111-SRP that includes 1 input to 4 outputs or with the double rear panel DDA-1111-DRP that includes 1 input to 9 outputs.



Board Presentation

