

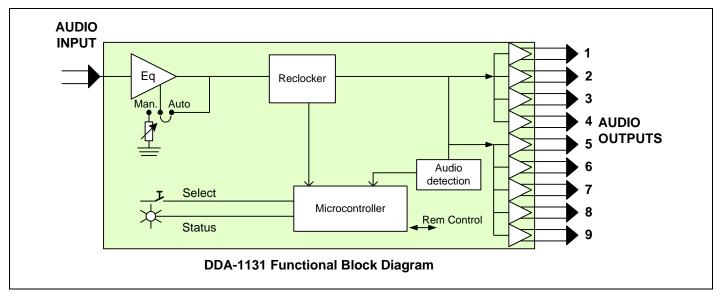
#### DDA-1131

#### Introduction

The Digital Audio Distribution Amplifier DDA-1131 supports AES3 110  $\Omega$  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-1131 requires a "single" or a "double" rear connector panel.

### **Features**

- Digital distribution amplifier 1 input 4 or 9 outputs
- AES3 audio balanced 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**

Intrinsic 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

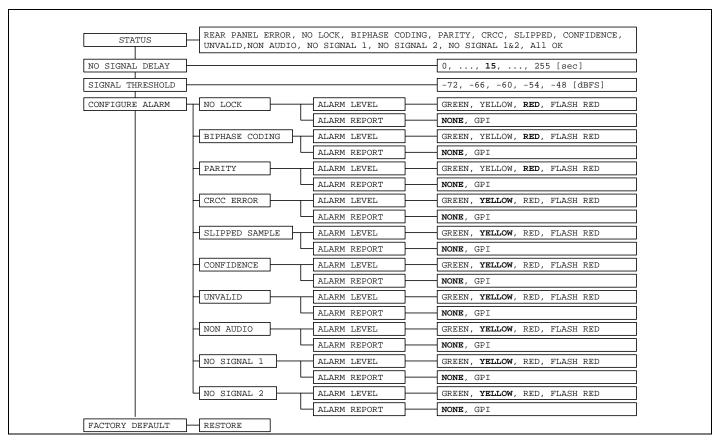
Power:....single: 1.8 W .....double: 2.7 W

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-1131 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.



SLIPPED

## Menu Description

**{STATUS}** 

Displays status of	f the different bo	ard alarms. Th	e higher-level
alarm is displaye	ed, 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.

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

Indicates a biphase coding error. BIPHASE CODING

PARITY Indicates a parity error. Indicates a CRCC error. CRCC Indicates a sample slipping.

Indicates an input signal up to be low. CONFIDENCE

Indicates an invalid sample. UNVALID

Indicates the audio content is not NON AUDIO

linear PCM samples.

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 s.

#### **{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

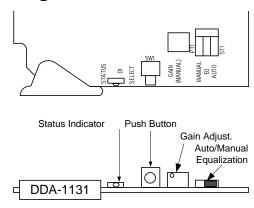
This table shows the front Led colour and the report action according to the level of a given error condition. Notice that the "Flashing Yellow" Status LED indicates that the SELECT button on the front panel has been pushed, and the card is being accessed via the communication protocol.

	Serial	GPI	Green	Yellow	Red	Flashing	Flashing
	Report	Report				Red	Yellow
NO LOCK on digital input	٥				٥		-
Biphase Coding Error	0				٥		-
Parity Error	0				٥		-
CRCC Error	0			0			-
Slipped Sample	0			0			-
Confidence	0			0			-
Unvalid	0			0			-
Non Audio	0			0			-
No signal detected on Input 1	٥			<b>©</b>			-
No signal detected on Input 2	0			<b>©</b>			-
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

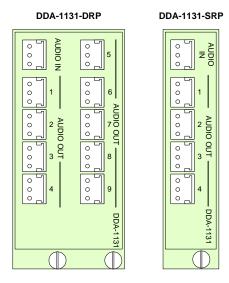


# Configuration

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-1131 is used with the single rear panel DDA-1131-SRP that includes 1 input to 4 outputs or with the double rear panel DDA-1131-DRP that includes 1 input to 9 outputs.



## **Board Presentation**

