

V2000-STBY



- PROVIDES EXTERNAL STANDBY AMPLIFIER OPTIONS BETWEEN V2000 FRAMES
- CONTROLS HOT SWOPABLE AMPLIFIERS
- EN54-16 COMPLIANT

OVERVIEW

The V2000-STBY is an EN54-16 compliant optional Standby Interface Card that can be used with V2000 Voice Alarm Amplifier Mainframes to provide control of hot swappable ASL D Series power amplifier modules across different V2000 Frames.

The V2000-STBY external standby capability enables optimum assignment of standby amplifiers within complex systems to enhance overall system reliability while providing maximum flexibility of design.

The standby interface card has RJ45 control connections and a 100V daisy chain connection for looping to other frames.

V2000 Amplifier Standby Methods

Standby amplification can be provided internally within the V2000 or by means of an external standby amplifier. Use of an internal standby amplifier requires no standby wiring to be made. Use of an external standby amplifier requires a V2000-STBY module to provide the standby control and 100V speaker line connections between the V2000 Frames.

Configurable Amplifier Powers

The configurable output power capability of the ASL D Series D500 and D150 amplifier modules enables very flexible use of the mainframe, with reduced mainframe count, less quiescent power requirement, and improved environmental performance compared with traditional amplifier designs. Example applications are:

- Ten off 150W amplifier = 1 x V2000 mainframe and 10 x D150 amplifier module
- Quad 500W amplifier = 1 x V2000 mainframe and 4 x D500 amplifier module
- Mix-and-match options such as four 50W zones, two 300W zones, and two 500W zone all driven from a single V2000 mainframe, including a standby amplifier
- Standby amplifiers must have the same power capability configured as the highest rated amplifier they could replace

External Standby Configuration and Connections

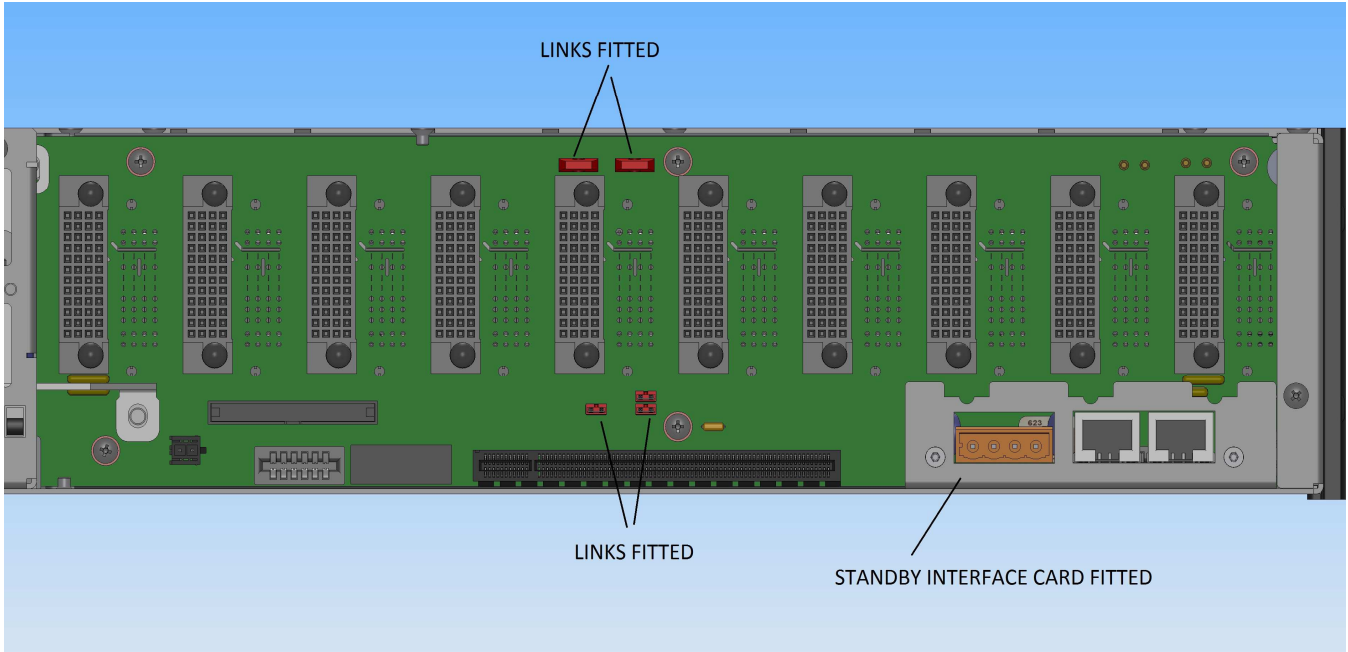
Where one V2000-STBY card is fitted to a V2000 frame, in either location, this configuration allows the frame to be configured as a group of ten; any amplifier may be chosen as the standby but it must have its 100V output wired to the 100V connection on the standby interface card.

Where two V2000-STBY cards are fitted to a V2000 frame, this configuration allows the frame to be split into two groups of five. Any amplifier may be chosen as the standby but it must have its 100V output wired to the 100V connection on the standby interface card.

EXAMPLES

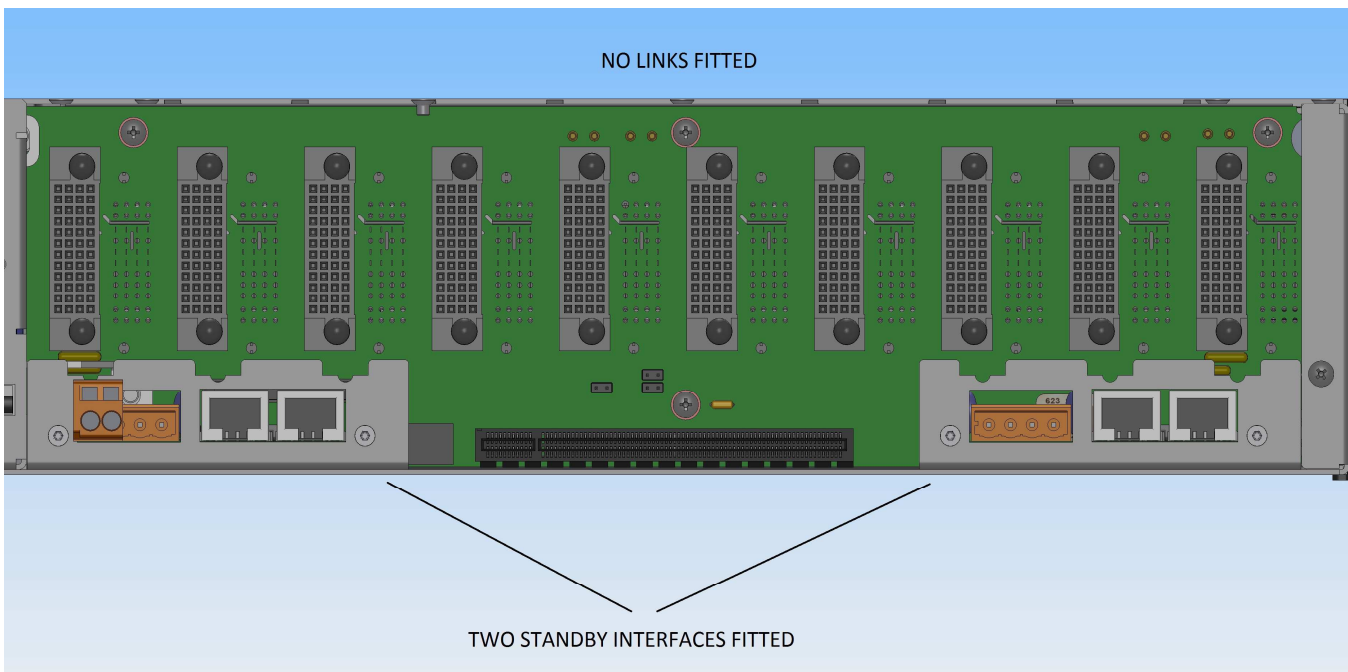
External Standby Connections—one group of ten

With one V2000-STBY card fitted to the V2000 frame, as shown below, any permitted amplifier may be chosen as the standby for other frames (usually within the same rack) but it must have its 100V output wired to the 100V connection on the standby interface card.



External Standby Connections—two groups of five

With both V2000-STBY cards fitted to a V2000 frame this allows the frame to be split into two groups of five - within each group of five, any permitted amplifier may be chosen as the standby for other frames (usually within the same rack) but it must have its 100V output wired to the 100V connection on the standby interface card.

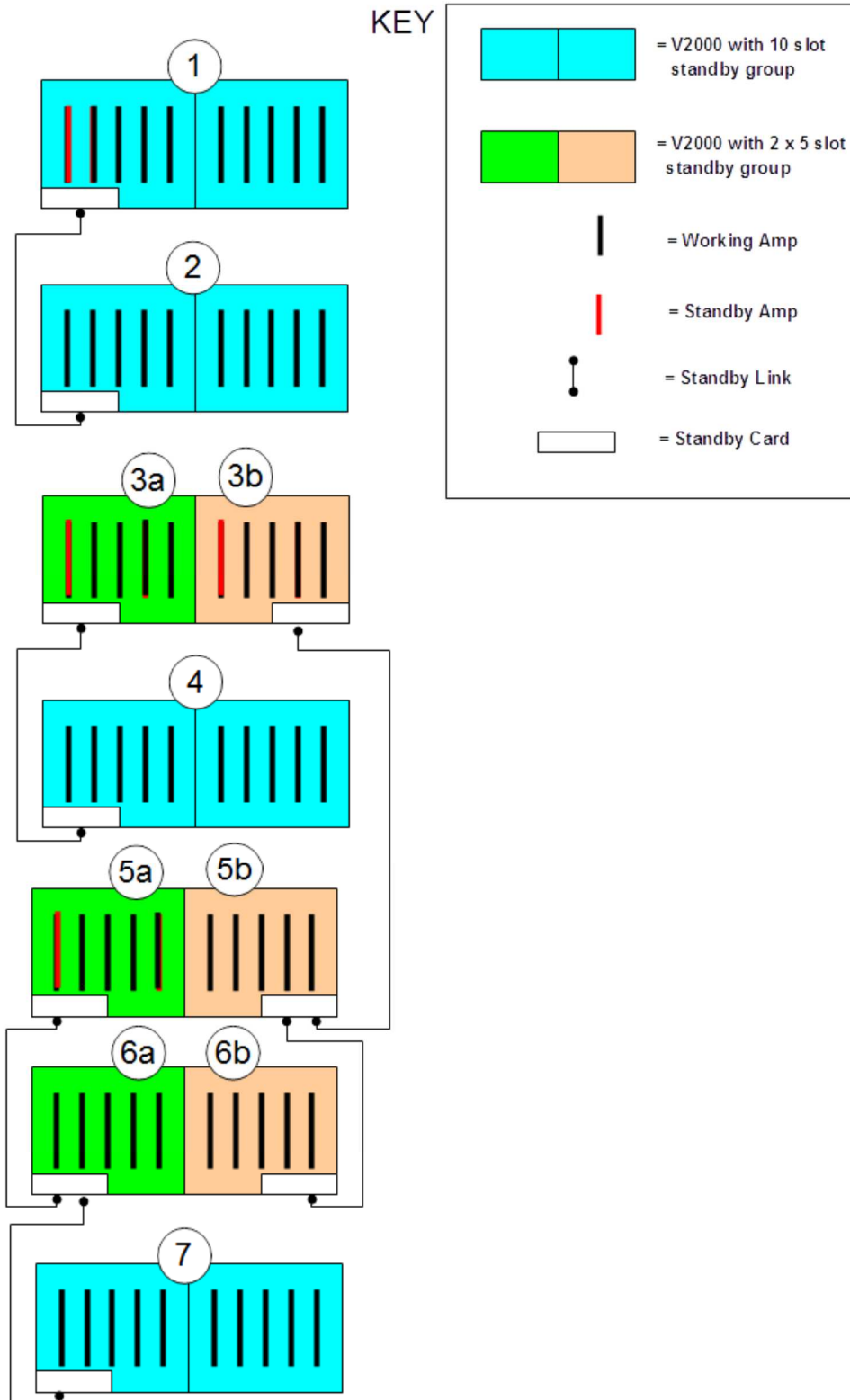


Please note: diagrammatic representations only. For clarity, not all system components are shown - please refer to ASL Install Guides and System Design Guidelines for detailed information.

EXAMPLES

External Standby Connections—Permutation Example

The diagram below illustrates some interconnection examples for V2000 Frames fitted with various combinations of both the external V2000-STBY options: 1 x 10 slot and 2 x 5 slot standby groups

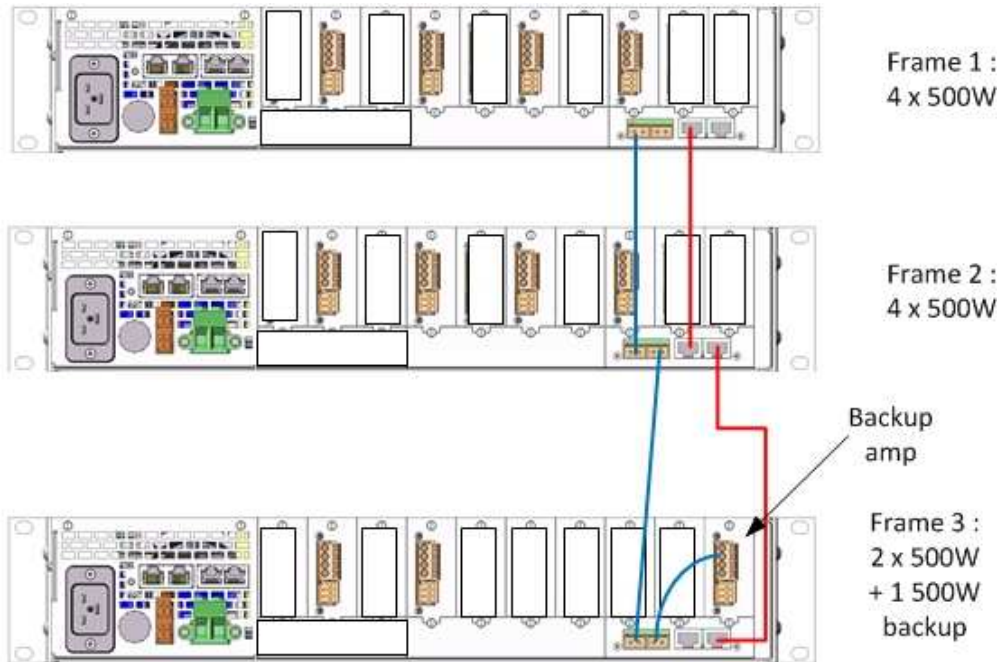


EXAMPLES

External Standby Connections—Wiring Example

This example shows some simple V2000 Frame configurations, in this instance using only one type of amplifier (D500s).

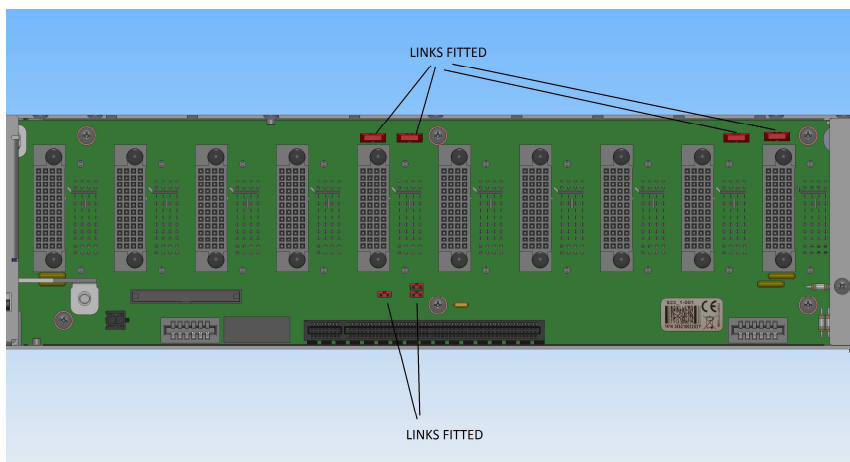
The red lines represent the low level audio input signal connections between the V2000-STBY cards in each frame and the blue lines show the daisy chain for the 100V output wired between the V2000-STBY in each V2000 Frame until finally it connects to the 100V connection on the standby (backup) D500 Amplifier.



Internal Standby Connections

The V2000 Frame has a default provision of Internal Standby, where the slot 1 amplifier can be configured to be the standby for all the others fitted in the Frame, and this is provided using the red “handbag” links on the backplane as shown in the diagram below.

IMPORTANT NOTE - where V2000-STBY interface cards are fitted, links must be removed from the backplane in accordance with the Install Guide instructions for safe operation of the V2000 Frame and Standby features.



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SPECIFICATION

Technical Specification

Current Consumption	0 mA
Maximum Standby Input	refer to amplifier specifications
'Daisy-Chain' wiring from mainframe to mainframe:	
LOW LEVEL STANDBY LINK.....	standby control lines using RJ45 Patch cable
STANDBY 100V IN Amplifier Interface	standby audio input (up to 100 V RMS) 0 dBu low level audio
Temperature Range / Humidity Range.....	refer to V2000 Amplifier Mainframe specifications
Dimensions (H x W x D) / Weight.....	26 mm x 90 mm x 118 mm / 60 g



This equipment is designed and manufactured to conform to the following EC standards:
 EMC: EN 50121-4, EN 50130-4, EN 55103-1/E1, EN 55103-2/E5, EN 61000-6-2 and EN 61000-6-3
 Safety: EN 60950-1 (Class 1, Over-voltage category 2, pollution degree 2)

Manufacturer

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