Solid State Logic

OXFORD • ENGLAND

G Series Bus Compressor Module for 500 Series Racks

User Guide

Safety and Installation Considerations

This page contains definitions, warnings, and practical information to ensure a safe working environment. Please take time to read this page before installing or using this apparatus.

General Safety

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Do not expose this apparatus to rain or moisture.
- Clean only with dry cloth.
- Do not block any ventilation openings.
- Install in accordance with the rack manufacturer's instructions.
- There are no user-adjustments, or user-servicable items, on this apparatus.
- Adjustments or alterations to this apparatus may affect the performance such that safety and/or international compliance standards may no longer be met.
- This apparatus is not to be used in safety critical applications

Caution

- This apparatus should not be used outside of the scope of API 500 series compatible racks.
- Do not operate this apparatus with any covers removed.
- To reduce the risk of electric shock, do not perform any servicing other than that contained in these Installation Instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

Installation

- Ensure power is removed from the rack before fitting or removing this apparatus to or from the rack.
- Use the panel fixing screws supplied with the rack to secure this apparatus into the rack.

Standards Compliance

This apparatus is designed to be installed and used in API 500 series compatible racks which are CE marked. The CE mark on a rack is indicative that the manufacturer confirms that it meets both EMC and the Low Voltage Directive (2006/95/EC).

Instructions for Disposal of WEEE by Users in the European Union

The symbol shown here is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

Limited Warranty

Please refer any warranty claim to the supplier of this equipment in the first instance. Full warranty information for equipment supplied directly by Solid State Logic can be found on our website:

www.solidstatelogic.com

Introduction

Congratulations on your purchase of this API 500 format compatible SSL G Series Bus Compressor module.

This module has been specifically designed to operate in a 500 format rack such as the API lunchbox® or equivalent. In common with many such modules, the nominal input/output level is +4dBu.

The module is a stereo compressor, designed to provide flexible control over a stereo mix. The compressor design is based around the Bus Compressor found in the SL 4000 G Series console.


SSL G-COMP
0
4
8
12
16
20
dB
COMPRESSION
THRESHOLD
0
-20
dB
+20
MAKE UP
0
–
dB
+
IN
ATTACK
1
3
.3
10
.1
30
ms
RELEASE
.4
.8
.2
1.6
.1
AUTO
s
RATIO
3
4
2
5
1.5
10
HPF
60
105
30
125
OFF
185
Hz
STEREO BUS COMPRESSOR

Operation

Please refer to the front panel illustration

The main VCA is permanently in circuit; the compressor sidechain is enabled by the IN switch. The other sidechain controls are equally straight forward and hopefully require little explanation. The ATTACK, RATIO and RELEASE controls are multi-position switches; the THRESHOLD and MAKE-UP controls are continuously variable potentiometers.

It should be noted that the knee point of the compressor, set with the THRESHOLD control, purposely changes depending on the setting of the RATIO control. Decreasing the RATIO setting lowers the effective threshold, hence maintaining the perceived ‘loudness’ of the compressed signal.

The compressor features a classic ‘dominant’ sidechain architecture. The left and right channels are independently rectified using a true peak full wave detector circuit, and the dominant, ie. louder channel, controls the gain reduction of the overall stereo level via the user selected time constants. The compressor now features an HPF (High Pass Filter) in the sidechain, which is controlled by a multi-position switch.

The illuminated compression meter at the top of the module displays gain reduction for the compressor.

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Visit SSL at:

www.solidstatelogic.com

PLEASE READ ALL INSTRUCTIONS, PAY SPECIAL HEED TO SAFETY WARNINGS.

E&OE

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Revision History

Revision V2.0, June 2020 - Revised Layout Release for Module Update