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# Technical Data

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## Contents

Introduction	1	Block Diagrams	3
Modules	2	Mono Input	3
Mono Input	2	Stereo Input	4
Stereo Input	2	Talkbacks & Stereo Returns	5
Master Section	2	Groups/Aux/Matrix Outputs	6
		Master Section	7
		Specifications	8

## Introduction

- Individually switched 48V phantom power on every input module
- 8 Aux sends
- 4 Sub Groups
- 4 Mute Groups
- 7x4 Output Matrix
- Limiter on record output
- New GB30 mic pre-amp
- 4-band GB30 EQ
- Integral power supply, with an external power supply link option
- All metal TRS jacks and Neutrik XLRs
- Direct outputs on all mono input channels

# GB4

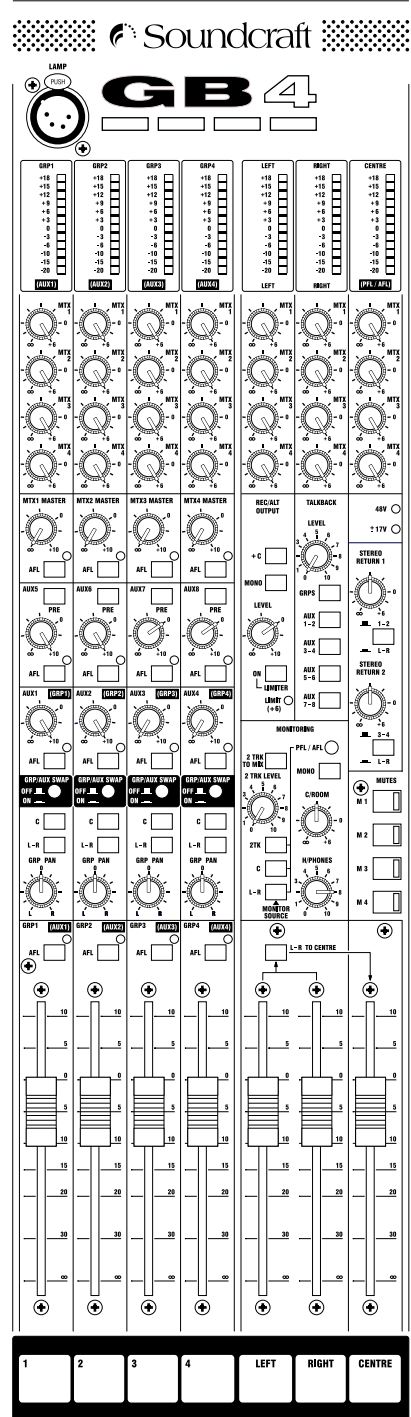
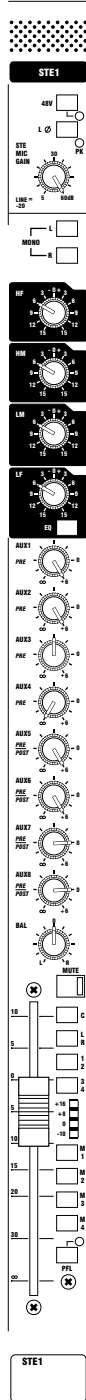
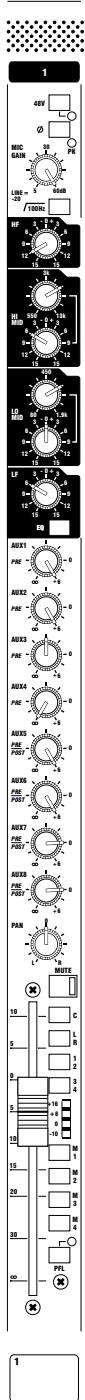
## Technical Data

### GB4 Modules

#### Mono Input

#### Stereo Input

#### Master Section

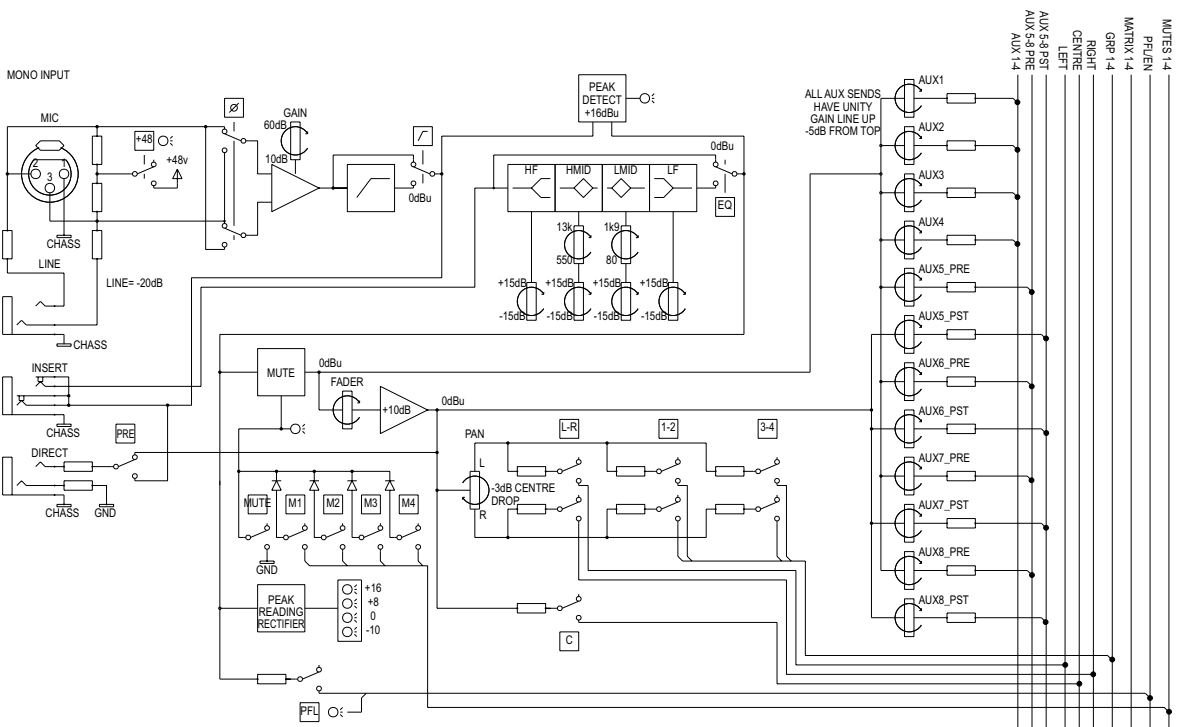


# GB4

## Technical Data

### GB4 Block Diagrams

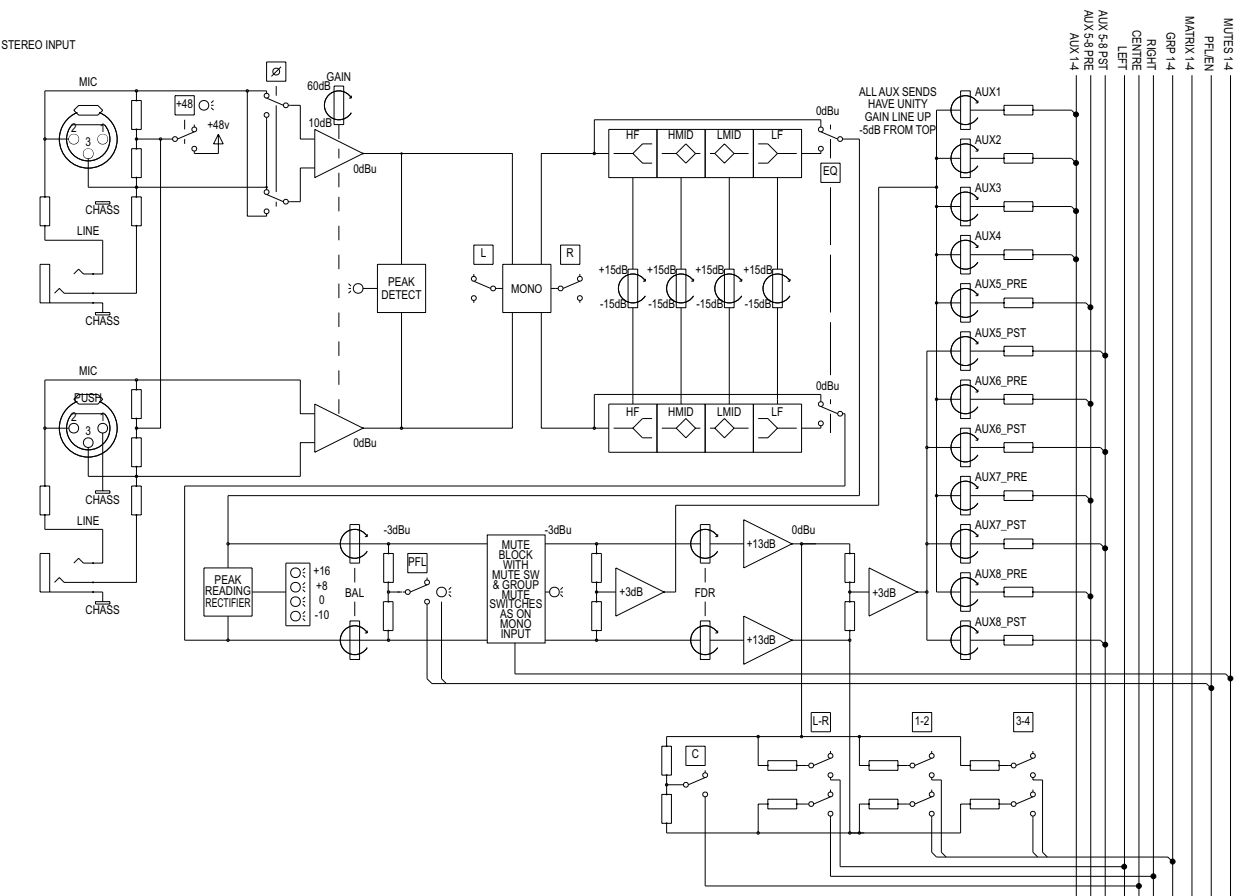
#### Mono Input



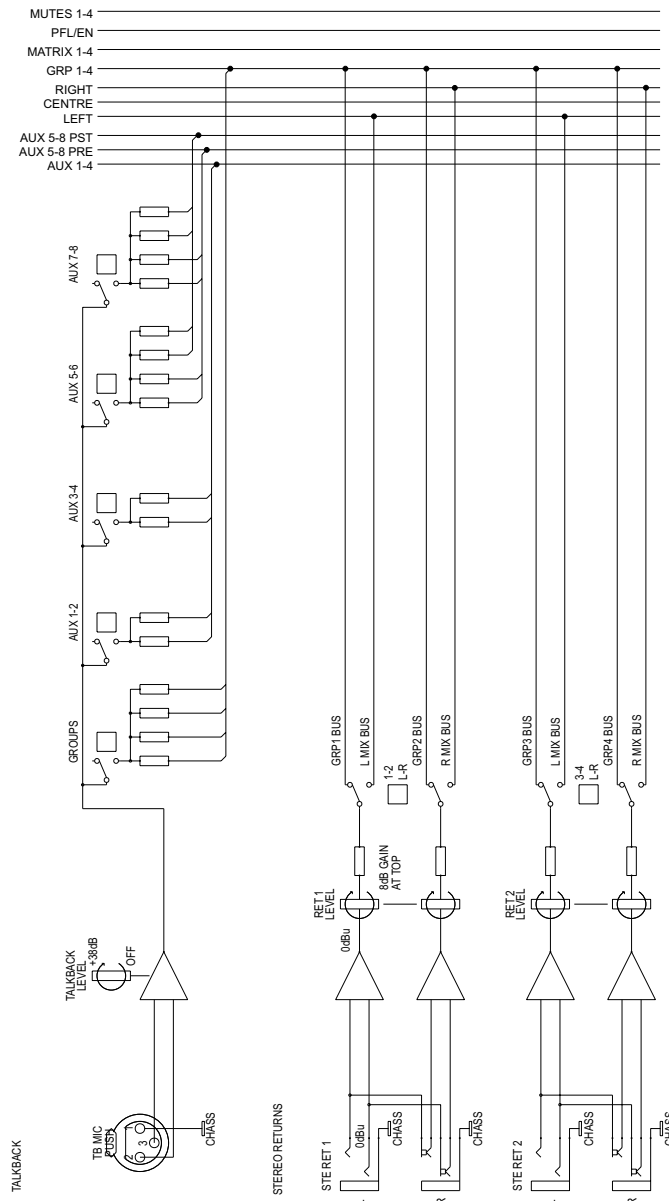
# GB4

## Technical Data

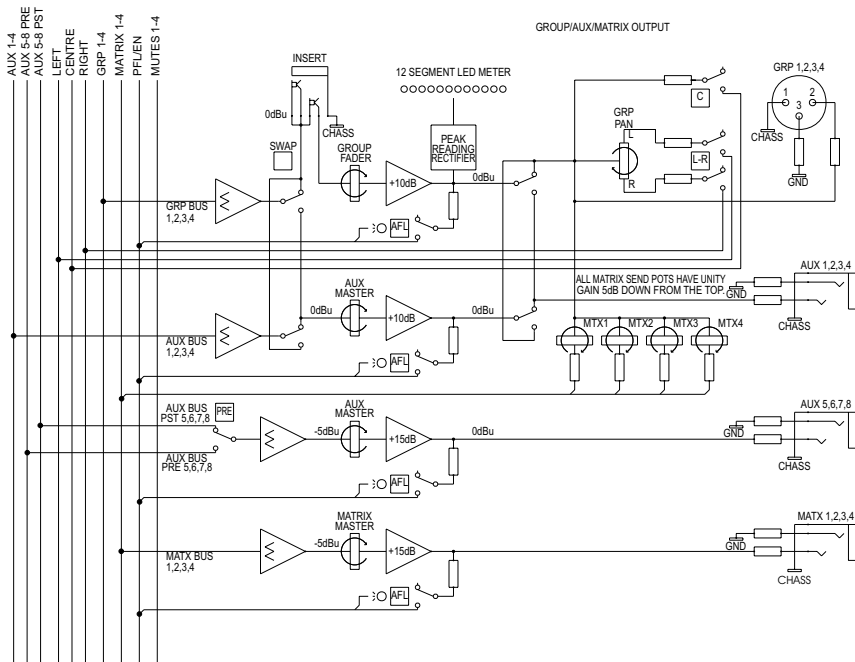
### Stereo Input



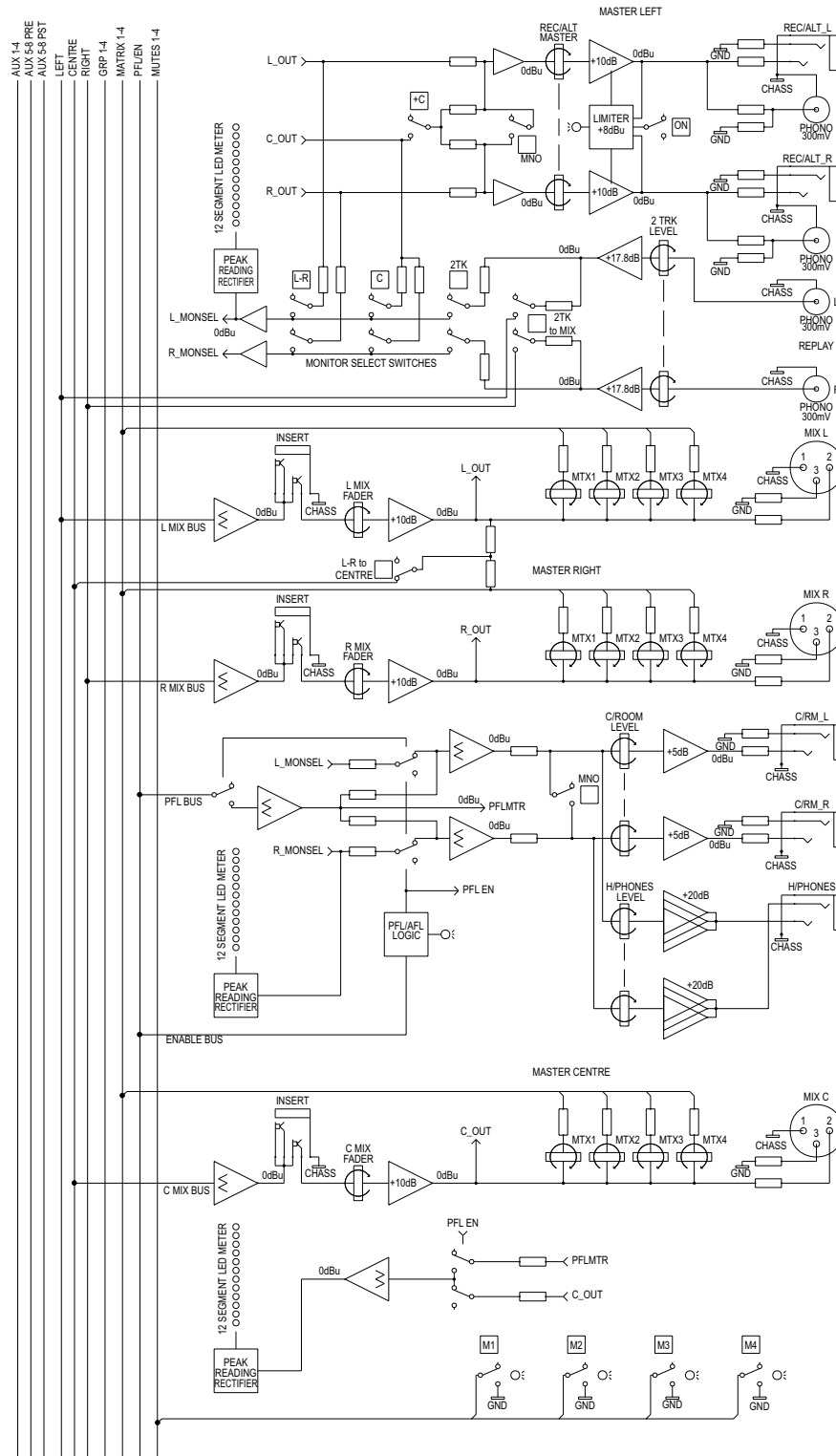
## Talkbacks & Stereo Returns



## Groups/Aux/Matrix Outputs



## Master Section





# Technical Data

## Specifications

### Noise

Measured RMS, 22Hz to 22kHz Bandwidth

Mic E.I.N. @ unity gain, 150W source impedance .....	-128dBu
Mix Output, 40 inputs routed to mix .....	<-82dBu
Group Outputs .....	<-83dBu
Aux Outputs .....	<-80dBu
Matrix Outputs .....	<-89dBu
Crosstalk (@1kHz, typical)	
Input Channel Mute .....	<-97dB
Input Fader cut-off .....	<-95dB
Pan isolation .....	<-77dB
Mix route isolation .....	<-97dB
Group route isolation .....	<-97dB
Adjacent channel crosstalk .....	<-99dB
Group to Mix .....	<-89dB
Aux Send pots offness (typical) .....	<-84dB
Matrix Send pots offness (typical) .....	<-89dB

### Frequency Response

Mic/Line Input to any output, 20Hz - 20kHz .....	<1dB
THD + N	
Mic sens. -30dBu, +20dBu at all outputs @1kHz .....	<0.006%

### CMRR

Typical @ 1kHz .....	80dB
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### Input & Output Max Levels

Mono & Stereo Mic Inputs .....	+15dBu
Mono & Stereo Line Inputs .....	+30dBu
Stereo Returns & Insert Returns .....	+20dBu
Any output .....	+20dBu
Nominal Operating Level .....	0dBu
Headphone Power .....	2x250mW into 200Ω

### Input & Output Impedances

Mic Inputs .....	2kΩ
Line Inputs and Stereo Returns .....	10kΩ
Input channels Insert Return .....	5kΩ with EQ in, otherwise 3kΩ
Mix, Group, Aux, Matrix & Direct outputs .....	150Ω
Insert sends .....	75Ω
Recommended Headphone Impedance .....	50 - 600Ω

### EQ

HF .....	13kHz, +/-15dB, 2nd order shelving
Hi-Mid .....	550Hz - 13kHz, +/-15dB, Q=1.5
Lo-Mid .....	80Hz - 1.9kHz, +/-15dB, Q=1.5
LF .....	80Hz, +/-15dB, 2nd order shelving

### Dimensions & Weight

Height	
All frame sizes .....	159mm (6.26")
Width	
12 channel .....	730mm (28.73")
16 channel .....	842mm (33.13")
24 channel .....	1065mm (41.93")
32 channel .....	1300mm (51.17")
40 channel .....	1523mm (59.96")
Depth	
All frame sizes .....	656mm (25.83")
Weight	
12 channel .....	20 kg (44.1 lbs)
16 channel .....	22 kg (48.5 lbs)
24 channel .....	27 kg (59.5 lbs)
32 channel .....	32 kg (70.5 lbs)
40 channel .....	37 kg (81.6 lbs)

SOUNDCRAFT, Harman International Industries Ltd., Cranborne House, Cranborne Road, Potters Bar, Herts., EN6 3JN U.K.  
Tel: +44 (0) 1707 665000 Fax: +44 (0) 1707 660742 EMAIL: info@soundcraft.com

SOUNDCRAFT USA, Harman Pro North America, 8500 Balboa Blvd., Northridge, CA 91329, USA  
Main tel: +1 818 920 3212, Main fax: +1 818 920 3208, Direct toll free: 888 251 8352  
EMAIL: soundcraft-usa@harman.com

**www.soundcraft.com**

