

# GLI 2000 Series

## HEAVY DUTY GROUND LOOP INHIBITORS

- Solves video system ground loop problems
- High core saturation voltage effectively eliminates even strong "hum" bars and common-mode noise caused by ground loops
- Proven and reliable passive technology
- High bandwidth maintains signal integrity: 425 MHz (-3db) RGB video bandwidth (100 MHz for GLI 2000 2BNC)
- Non-powered design for easy integration
- Compatible with these signal formats:
  - Composite video
  - S-video
  - Component video
  - RGB video
- Rugged, metal enclosure with protective rails
- 2U, half-rack or quarter rack width products rack-mountable using optimal rack shelf



The Extron GLI 2000 Series of Ground Loop Inhibitors virtually eliminates hum bars and common mode noise caused by improper grounding in video systems. Available in three different models, the GLI 2000 products use innovative, passive technology and are ideal for a variety of rental and staging applications, as well as for permanent installations.



# Extron® Electronics

[www.extron.com](http://www.extron.com)

# DESCRIPTION

The Extron **GLI 2000 Series** consists of high performance Ground Loop Inhibitors that offer reliable, simple solutions for A/V system ground loop problems. The Extron GLI 2000 Series' rugged construction make it the perfect solution for staging applications where mobility and ease of handling is a must. Each model comes standard with protective rails which guard connectors from damage should products be dropped or handled roughly during set-up or throughout an event. This flexibility in design allows them to be mounted virtually anywhere including in a rack or road case.

The GLI 2000 series is available in three models: a five-BNC version for all signal types from RGBHV down to composite; a two-BNC version for S-video and composite video; and a 15-pin HD version for connection of computer-video. These convenient configurations make it unnecessary to keep multiple connector adapters on hand while providing exactly the right solution for a given application. The GLI 2000 Series products are able to handle even the heaviest "hum" bars and the highest frequency signals and various cable lengths without degrading the signal.

The GLI 2000 family of products uses proven passive technology and high performance components that provide high core saturation voltage capabilities for even the worst ground loop problem. The GLI products do not require an external power supply as they are non-powered. This enables them to be added anywhere in a system.

# SPECIFICATIONS

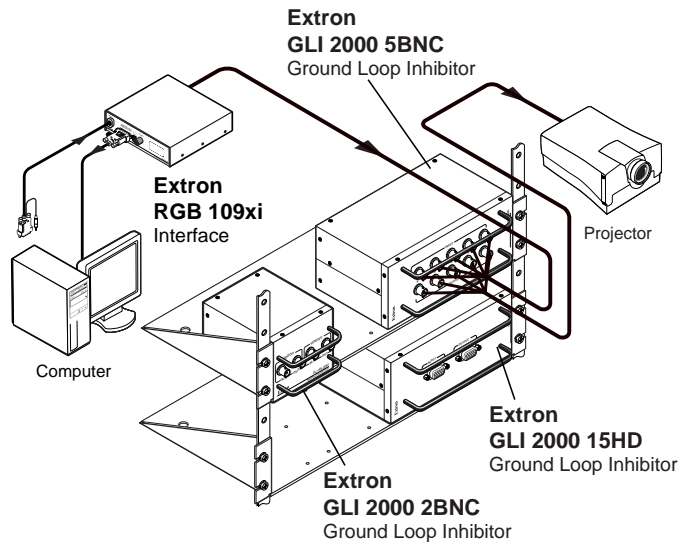
VIDEO	
Gain.....	Unity
*Core saturation voltage .....	>10V
Bandwidth	
GLI 2000 2BNC.....	100 MHz (-3dB)
GLI 2000 5 BNC/GLI 2000 15 HD.....	425 MHz (-3dB)
CMRR.....	>60dB @ 50 Hz or 60 Hz
*NOTE: See the Extron Web site for details on core saturation test conditions.	
VIDEO INPUT	
Number/signal type	
GLI 2000 5BNC, GLI 2000 15HD .....	1 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs, Component
GLI 2000 2BNC.....	1 S-video or 2 composite video
Connectors	
GLI 2000 5BNC.....	5 female BNC
GLI 2000 15HD.....	1 female 15-pin HD
GLI 2000 2BNC.....	2 female BNC
Nominal level.....	
	1V p-p for Y of S-video, and for composite video
	0.7V p-p for RGB
	0.3V p-p for C of S-video
Minimum/maximum levels.....	
	Analog: -15V to +15V p-p with no offset
Impedance.....	75 ohms
Horizontal frequency .....	10 kHz to 2000 kHz
Vertical frequency.....	15 Hz to 180 Hz
Return loss .....	<-30dB @ 1 MHz to 100 MHz
VIDEO OUTPUT	
GLI 2000 5BNC, GLI 2000 15HD .....	1 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs, Component
GLI 2000 2BNC .....	1 S-video or 2 composite video
Connectors	
GLI 2000 5BNC.....	5 female BNC
GLI 2000 15HD.....	1 female 15-pin HD
GLI 2000 2BNC.....	2 female BNC
Nominal level.....	
	1V p-p for Y of S-video, and for composite video
	0.7V p-p for RGB 0.3V p-p for C of S-video

# SPECIFICATIONS (CONT.)

Minimum/maximum levels.....	Analog: -15V to +15V p-p with no offset
Impedance.....	75 ohms
Horizontal frequency .....	10 kHz to 2000 kHz
Vertical frequency.....	15 Hz to 180 Hz
Return loss .....	<-30dB @ 0 to 100 MHz
DC offset .....	±10 mV maximum
SYNC — GLI 2000 5BNC, GLI 2000 15HD, UNLESS OTHERWISE INDICATED	
Input type .....	RGBHV, RGBS, RGSB, RsGsBs
Output type.....	RGBHV, RGBS, RGSB, RsGsBs
Standards (GLI 2000 2BNC).....	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level .....	-15V to +15V p-p
Output level.....	-15V to +15V p-p, unterminated
Input impedance .....	75 ohms
Output impedance.....	75 ohms
Max. propagation delay	
GLI 2000 2BNC.....	52 ns
Other models .....	26 ns
Polarity.....	Positive or negative (follows input)
GENERAL	
Power.....	Not powered
Rack mount .....	Yes, with optional 2U rack shelf, part #60-032-01
Enclosure type .....	Metal
Enclosure dimensions	
GLI 2000 5BNC, GLI 2000 15HD .....	3.4" H x 8.6" W x 5" D (2U high, half rack width) 8.6 cm H x 21.8 cm W x 12.7 cm D
GLI 2000 2BNC.....	3.4" H x 4.3" W x 5" D (2U high, one quarter rack width) 8.6 cm H x 10.9 cm W x 12.7 cm D (Depth excludes connectors/guards and handles.)
Product weight	
GLI 2000 2BNC.....	3.1 lbs (1.4 kg)
Other models .....	6.2 lbs (2.8 kg)
Shipping weight	
GLI 2000 2BNC.....	5 lbs. (2.3 kg)
All other models .....	8 lbs. (3.6 kg)
Listings.....	UL, CUL
Compliances .....	CE
Model Part Numbers	
GLI 2000 5BNC .....	60-601-01
GLI 2000 15HD .....	60-602-01
GLI 2000 2BNC .....	60-603-01

Specifications are subject to change without notice.

# APPLICATION DIAGRAM



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