

Extron® Electronics

INTERFACING, SWITCHING AND DISTRIBUTION



Rugged, rack-mountable,
metal enclosure with
protective rails

Solves video system ground
loop problems

Proven and reliable passive
technology

Non-powered design for
easy integration

1 GHz (-3dB) video
bandwidth

GLI 1000 5BNC accepts
RGBHV through composite

GLI 1000 2BNC and
GLI 1000 2RCA accept
S-video and composite

GLI 1000 15HD for
computer video



www.extron.com

DESCRIPTION

Extron's GLI 1000 Series of ground loop inhibitors offer reliable, simple solutions for A/V system ground loop problems. The GLI 1000 Series' lightweight, compact design and 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 the event. Additionally, the GLI 1000 products are rack mountable. Detachable mounting brackets are optional. This flexibility in design and small size allows them to be mounted virtually anywhere including in a rack or road case, near the projector, or in/under furniture.

The GLI 1000 series is available in four models: a five-BNC version for all signal types from RGBHV down to composite; a two-BNC version for S-video and composite video; a two-RCA connector 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. And, with a bandwidth of 1GHz (-3dB), GLI 1000 products are able to handle even the highest frequency signals without degrading the signal.

GLI 1000 products are designed for applications that experience ground loop and interference problems, such as those found in convention centers, hotels, or other large buildings. These occur when separate grounds, carrying different loads, are "looped" together by sources and displays within an A/V system, resulting in "hum" bars (60-cycle noise). Hum bars can be described as background bars rolling vertically through the displayed image. This problem is most common in the case of a projector and its signal source(s) being powered from two different power-ground systems that are separated by significant distance. One solution is to have all system components powered from the same ground, but this is not always a possible or cost-effective solution. The GLI 1000 can save hours of troubleshooting and unnecessary rewiring by providing electrical separation for systems where it is impractical to connect all equipment to the same ground—stopping the loop and virtually eliminating hum bars and common mode noise caused by improper grounding in video systems.

The GLI 1000 family of products uses proven passive technology using high-performance components unique to Extron. 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. By using innovative technology, the GLI series is effective in solving the majority of video grounding problems.

OPTIONAL ACCESSORIES

| | |
|--------------------------------------|-----------|
| BNC to RCA connector | 10-264-01 |
| SVHSM-BNCM 1" | 26-353-02 |
| SY VGA | 26-173-01 |
| SY MAC..... | 26-171-01 |
| SU 13W3-61 | 26-241-01 |
| Mini Bracket Mount..... | 70-212-01 |
| 1U recessed vertical rack plate..... | 70-213-01 |
| 2U recessed vertical rack plate..... | 70-214-01 |
| 1U flat vertical rack plate | 70-215-01 |
| 2U flat vertical rack plate | 70-216-01 |
| GLI 1000 projector mount..... | 70-217-01 |

SPECIFICATIONS

Video (all versions)

| | |
|-----------------|-------------------|
| Gain | Unity |
| Bandwidth | 1000 MHz (-3dB) |
| CMRR | -60dB @ 60Hz/50Hz |

SPECIFICATIONS

Video input

| | |
|------------------------------|--|
| Number/signal type | |
| GLI 1000 15HD/5BNC | 1 VGA-UXGA, RGBHV, RGBS, RGsB, component video, S-video, composite video |
| GLI 1000 2BNC/2RCA | 1 S-video, composite video |
| Connectors | |
| GLI 1000 15HD | 1 female 15-pin HD |
| GLI 1000 5BNC | 5 female BNC |
| GLI 1000 2BNC | 2 female BNC |
| GLI 1000 2RCA | 2 female RCA |
| Minimum/maximum levels | Analog: -5Vp-p to 5V p-p with no offset |
| Impedance | 75 ohms |
| Horizontal frequency | 10 kHz to 2000kHz |
| Vertical frequency..... | 15 Hz to 180Hz |
| Return loss | -30 dB up to 100 MHz |

Video output

| | |
|------------------------------|--|
| Number/signal type | |
| GLI 1000 15HD/5BNC | VGA-UXGA, RGBHV, RGBS, RGsB, component video, S-video, composite video |
| GLI 1000 2BNC/2RCA | S-video, composite video |
| Connectors..... | 5 female BNC |
| Minimum/maximum levels | Analog: -15V p-p to 15V p-p |
| Impedance | 75 ohms |
| Return loss | -30dB @ 0 to 100 MHz |

Sync

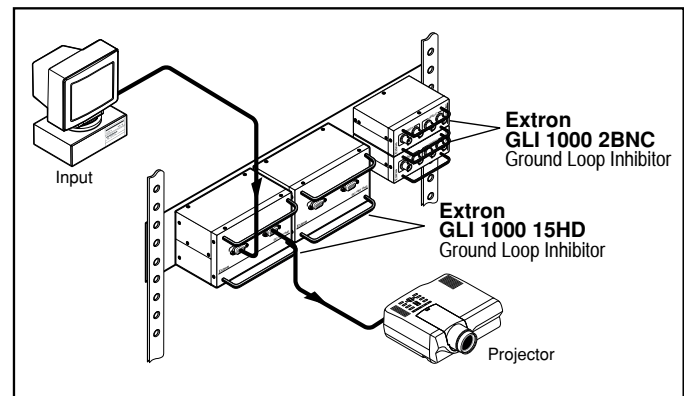
| | |
|------------------------------|-------------------|
| Input/output type | RGBHV, RGBS, RGsB |
| Input level | 0.5V to 5V p-p |
| Output level..... | TTL: 5V p-p |
| Input/output impedance | 75 ohms |
| Polarity..... | Follows input |

General

| | |
|--------------------------|--|
| Power | Not powered |
| Rack mount | Yes, with optional brackets |
| Furniture mount | Yes, with optional brackets |
| Enclosure type | Metal enclosure with protective rails |
| Enclosure dimensions | |
| GLI 1000 15HD/5BNC | 5.6" H x 3.75" W x 4.1" D (>2U high, 1/3 rack width) 14.2 cm H x 9.5 cm W x 10.5 cm D (Depth excludes connectors and handles.) |
| GLI 1000 2BNC/2RCA | 1.75" H x 4.25" W x 3.8" D (1U high, 1/4 rack width) 4.4 cm H x 10.8 cm W x 9.7 cm D (Depth excludes connectors and handles.) |
| Shipping weight | |
| GLI 1000 15HD/5BNC | 3 lbs (1.4 kg) |
| GLI 1000 2BNC/2RCA | 2 lbs (0.9 kg) |
| Listings..... | UL |
| Compliances..... | CE |

| Model | Part Numbers |
|---------------------|--------------|
| GLI 1000 5BNC | 60-420-01 |
| GLI 1000 2BNC | 60-420-02 |
| GLI 1000 15HD | 60-420-03 |
| GLI 1000 2RCA..... | 60-420-04 |

APPLICATION DIAGRAM



Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
800.633.9876 714.491.1500
FAX 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C, 3821 AH Amersfoort
The Netherlands
+800.3987.6673 +31.33.453.4040
FAX +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Rd. #04-01
PM Industrial Bldg.
Singapore 368363
+65.6383.4400 FAX +65.6383.4664

Extron Electronics, Japan
Daisan DMJ Bldg. 6F, 3-9-1 Kudan Minami
Chiyoda-ku, Tokyo 102-0074
Japan
+81.3.3511.7655 FAX +81.3.3511.7656