

Glass Optical Fiber Repeater 800™

Extend your S800 speed up to 550 meters

Unibrain provides to the Firewire users the best Glass Optical Fiber (GOF) Repeater that extends the S800 (800Mbps) transmission of 1394b bus up to 550 meters distance over fiber optic cable.

Each GOF Repeater800™ unit has two (2) 1394b bilingual copper ports and one optical port: either **MT-RJ** type or **LC** type.

Basic specifications

The basic specification features of Unibrain's GOF Repeater800™ are the following:

- Two (2) Fully Backward Compatible, (1394a–2000 Fully Compliant) Bilingual P1394b Cable Ports operating at 100/200/400/800 Megabits per Second (Mbits/s)
- One (1) 1394b optical port with MT-RJ type connector (model: **21-RJ8REP-OEM**) or LC type connector (model: **21-LC8REP-OEM**).
- Full Duplex Data Rate at 100/200/400/800 Mbps.
- Multi-Mode-Fiber (MMF) Glass optical fiber cable support.
- Maximum link length 550 meters.
- Operates in 1394a or 1394b connections with both PC or Macintosh.
- Metallic case for demanding industrial environment.

Sales package configuration

The basic specification features of Unibrain's 1394b Optical Repeater, GOF Repeater800™, are the following:

- **MT-RJ KIT:** a pair of 2 x MT-RJ GOF Repeater800™ and 2 DC +12V power supplies
- **LC KIT:** a pair of 2 x LC GOF Repeater800™ and 2 DC +12V power supplies



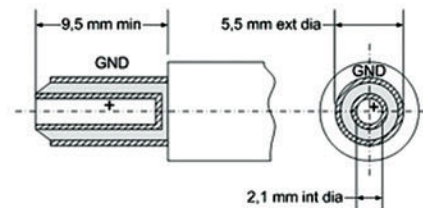
MT-RJ model



LC model

Detailed Specifications

- Fully Supports Provisions of IEEE P1394b Revision 1.33+ at 1-Gigabit Signaling Rates
- Fully Supports Provisions of IEEE 1394a–2000 and 1394–1995 Standard for High Performance Serial Bus
- Fully Interoperable With Firewire™, i.LINK™, and SB1394™, Implementation of IEEE Std 1394
- Provides Two (2) Fully Backward Compatible, (1394a–2000 Fully Compliant) Bilingual P1394b Cable Ports at up to 800 Megabits per Second (Mbits/s)
- Low-Power Sleep Mode
- Cable Power Presence Monitoring
- One (1) Glass Optical Fiber Connector
 - MT-RJ duplex Connector optical interface (model: 21-RJ8REP-OEM) or LC duplex Connector optical interface (model: 21-LC8REP-OEM)
 - 850 nm Vertical cavity surface emitting laser.
 - Maximum link lengths:
 - 275 m Links in 62.5/125 μm MMF 200 MHz*km Cables
 - 550 m Links in 50/125 μm MMF 500 MHz*km Cables
 - IEC 60825-1 Class 1/CDRH Class 1 Laser Eye Safe
 - IEEE 802.3 Gigabit Ethernet (1.25 Gbd) compliant
- Temperature/Humidity, operation -0 °C to +70 °C / 20 to 80 % rel., non cond., Temperature/Humidity, storage -10 °C to +60 °C / 20 to 95 % rel., non cond.
- Dimensions (W x H x D): 94.45 x 25.10 x 85.61 mm
- Weight: 266 grams
- Housing: Galvanized Steel, painted with polyester powder
- Power consumption: 125mA @ 12V =1.5W (typical) / 280mA @12V =3.3W (max)
- Operates with both PC and Macintosh
- Operation LED
- DC power in: +12V / 3A. The jack plug of the DC adapter has the following dimensions and polarity as on the figure.



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Case Studies

Unibrain, having huge experience in Firewire technology has tested and recommends the following basic applications and configurations for the GOF Repeater800™

Case A: connection of two (2) hosts

Connect one (1) PC or Macintosh, having 1394a or 1394b interface, to an GOF Repeater800™ via one 9-6 or 9-9 cable. Connect the two GOF Repeater800™ via Glass Optical Fiber Cable (up to 550 meters). Connect the second repeater via one 9-6 or 9-9 cable to the other PC or Macintosh.



Case B: 1394a/b cameras

Connect one (1) PC or Macintosh, having 1394a or 1394b interface, to an GOF Repeater800™ via one 9-6 or 9-9 cable. Connect the two GOF Repeater800™ via Glass Optical Fiber Cable (up to 550 meters). Connect the second repeater via 9-6 or 9-9 cables to 1394a or 1394b cameras. NOTE: In this case it is mandatory the usage of the 12V power supply in order to provide current to the repeater that is connected to the cameras.



Case C: external SBP-2 HDD

Connect one (1) PC or Macintosh, having 1394a or 1394b interface, to an GOF Repeater800™ via one 9-6 or 9-9 cable. Connect the two GOF Repeater800™ via Glass Optical Fiber Cable (up to 550 meters). Connect the second repeater via 9-6 or 9-9 cables to 1394a or 1394b external HDD. NOTE: In this case it is optional the usage of the 12V power supply in order to provide current to the repeater that is connected to the HDD, provided that the HDD receives external power.



Case D: DV camcorder

Connect one (1) PC or Macintosh, having 1394a or 1394b interface, to an GOF Repeater800™ via one 9-6 or 9-9 cable. Connect the two GOF Repeater800™ via Glass Optical Fiber Cable (up to 550 meters). Connect the second repeater via 9-6 or 9-9 cables to the DV camcorder. NOTE: In this case it is mandatory the usage of the 12V power supply in order to provide current to the repeater that is connected to the DV camcorder.



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The 1394 Innovators

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