

# BroaMan Repeat8-NANO Quad Converter

## 3G-SDI BNC to OPTICAL CONVERTER or OPTICAL to 3G-SDI BNC Converter

Small size  
High performance



### Repeat8-NANO 4IN

#### features:

- **4 video channels**
  - 3G-SDI input to fiber transmitter
  - Input reclockers
- **No configuration required,**  
Plug and play device
- **Channel status LEDs**
- **PSU INCLUDED**
- **LOW Power consumption**
- **Robust metal housing**
- **Mounting plate included**

### Repeat8-NANO 4OUT

#### features:

- **4 video channels**
  - Fiber input to 3G-SDI BNC output
  - Output reclockers
- **No configuration required,**  
Plug and play device
- **Channel status LEDs**
- **PSU INCLUDED**
- **LOW Power consumption**
- **Robust metal housing**
- **Mounting plate included**

The Digital Video Network developed by BroaMan, provides scalable, protocol independent, routing, repeating, transport and distribution of multiple professional video signals, such as 3G-SDI, over optical fiber.

Complete BroaMan systems are built from a collection of modules that include; coaxial and optical I/O, routers, repeaters, and optical multiplexers. Using the modular BroaMan building blocks, any system configuration can be realized.

BroaMan systems are specified and built to provide an application engineered solution, tailored to the requirements of the customer. The modular nature of BroaMan paves the way for construction of fully cost optimized systems.

Repeat8-NANO are two simple modules which convert 3G-SDI to fiber and back. Similar to it's "big brother" Repeat48, is features high performance at low cost.

Repeat8-NANO is a compact housing device, capable of up to four 3G-SDI coaxial video inputs or outputs that are converted to/from single-mode optical fiber. Additionally Repeat8-NANO supports MADI signals.

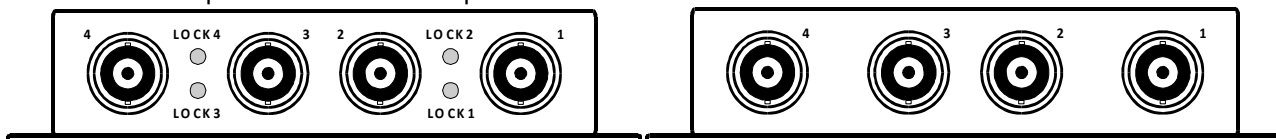
Repeat8-NANO can be equipped with optical transceivers that cover up to 80km quality loss less transmission. Thanks to high selection of optical transceivers this device can be a part of any WDM based system.

The robust chassis provides LEDs indicating input signal presence on each port as well as LEDs for status of the power supplies. The device is equipped with mounting plate which allows for secure and solid attachment.

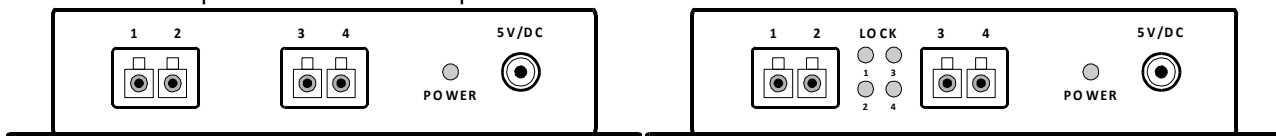
Repeat8-NANO requires no user configuration or software operation. Repeat8-NANO are fully PLUG-AND-PLAY devices ready to be used once unpacked from the box.

## Line Drawings

Front Panel – Repeat8-NANO 4IN / Repeat8-NANO 4OUT



Rear Panel – Repeat8-NANO 4IN / Repeat8-NANO 4OUT



## Technical Specifications

| Video               |                                     |
|---------------------|-------------------------------------|
| Standards           | SD, ED, HD, Dual Link, 3G           |
| Complies with SMPTE | 292M, 295M, 297M, 305M, 310M, 424M, |
| Compliant to        | DVBASI, MADI                        |
| Interface           | SDI – Serial Digital Interface      |

| Optical Connection  |                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------|
| Connection          | LC                                                                                               |
| Data rate           | Dependent on the Video data rate                                                                 |
| Fiber cable lengths | Standard singlemode transceivers ≤ 10 km<br>Special singlemode transceivers ≤ 80 km (on request) |

| Power Supply      |              |
|-------------------|--------------|
| Type              | External PSU |
| Mains voltage     | 100... 240 V |
| Frequency         | 50 60 Hz     |
| Output voltage    | 5V           |
| Output current    | 1A           |
| Power consumption | 5 W          |

| Mechanical Data                                  |                      |
|--------------------------------------------------|----------------------|
| Dimensions (L x D x H)                           | 112mm x 113mm x 20mm |
| Dimensions (L x D x H)<br>without mounting plate | 97mm x 113mm x 20mm  |

| Package content               |  |
|-------------------------------|--|
| External PSU, mounting plate. |  |

**BroaMan – Broadcast Manufactur GmbH**

Lohenstr. 8, 82166 München-Gräfelfing, Germany  
 Phone +49 (0)89-89 99 64 – 60, Fax +49 (0)89-89 99 64 - 79  
[inquiry@broaman.com](mailto:inquiry@broaman.com), [www.broaman.com](http://www.broaman.com)