

3G SERBAL™ 3G HD/SDI-TO-FIBRE CONVERTER

4K VIDEO COMPATIBLE



3G SERBAL™ - SMPTE Electrical Reconfigurable Bidirectional Alternative Link

4 channel Coax-to-fibre media Converter

The LEMO 3G SERBAL™ is a 4 channel multiplexer that makes 3G/HD-SDI to fibre conversion possible.

The 3G SERBAL™ is a compact conversion unit which allows output from up to 4 cameras to be transmitted over a single standard LEMO 3K.93C SMPTE cable.

The optical multiplexers of the 3G SERBAL™ use Wavelength Division Multiplexing (WDM).

Each signal within a fibre has a different optical wave length, enabling interference free transmission over longer distances than copper cabling.

The system automatically senses video signals, each channel can be defined as an input or output, allowing four channels of 3G/HD-SDI to be used in either direction. It is possible to transmit 4K video using this system.



Technical characteristics

| Characteristics | Values |
|------------------------------|--|
| Transmission wavelength (nm) | 1510 / 1530 / 1550 / 1570 |
| Cable | Hybrid 2 fibres 9/125 |
| Optical connector | SMPT 311 |
| Electrical coax connector | LEMO 3K.93C |
| Electrical coax connector | BNC 75 |
| Optical launch power | 0 dB Typ. |
| Optical receiver sensitivity | - 22 dBm (SMPT 259M 270 Mbps) - 22 dBm (SMPT 292M 1.485 Gbps) - 19 dBm (SMPT 424M 2.97 Gbps) |
| Temperature range | -30°C to +55°C |
| Humidity range | Up to 95% |
| Input voltage | 12 Vdc @ 1.5 A maximum |

| | 3G SERBAL™ Part number |
|-------------|---------------------------|
| Camera side | PHW.MS.3G4.TFJ4 |
| CCU side | FGW.MS.3G4.TFJ4 |

Every coax-to-fibre Media Converter comes with power supply (110V/220V) adapter.

Applications

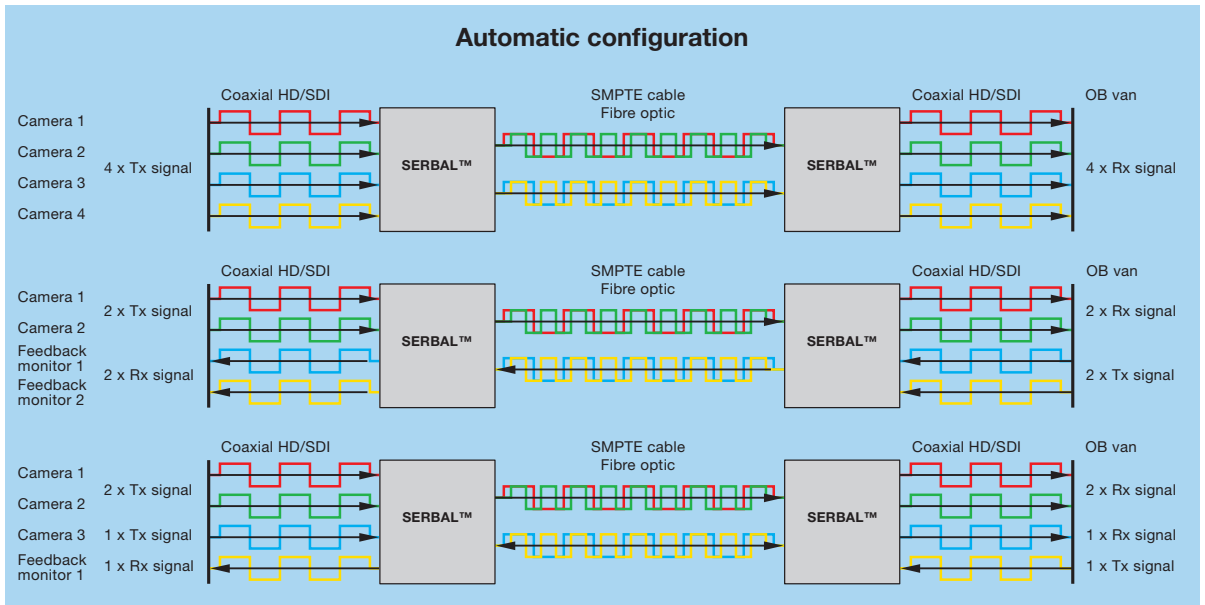
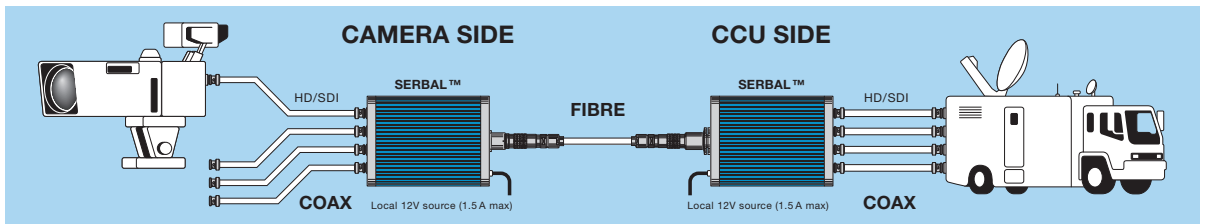
- Golf, skiing, auto racing, olympic games
- Pre-fibred venues
- Stadiums, racing tracks
- 4K video compatible

Advantages

- Plug & play solution
- High quality signal transmitted over fibre
- Compact

Features

- Converts from Coaxial BNC input to transmission over standard 3K.93C cable assemblies
- Audio/Data: passes pre-embedded Audio
- Each channel supports all SDI video formats from 270 Mb/s to 2.97 Gb/s
- Signal format: SMPT 424M, SMPT 292M and SMPT 259M compliant DVB-ASI at 270Mb/s.



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