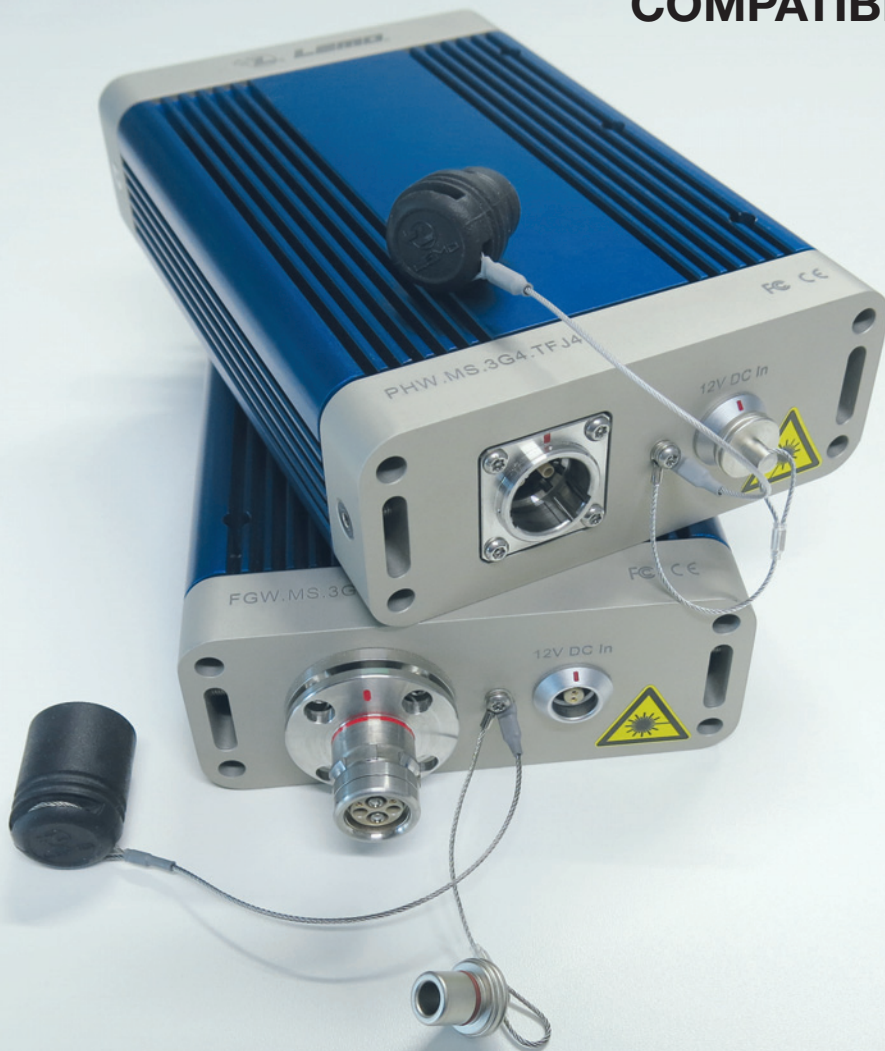


# 3G SERBAL™ 3G HD/SDI-TO-FIBRE CONVERTER

## 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
SMPTTE	311
Optical connector	LEMO 3K.93C
Electrical coax connector	BNC 75
Optical launch power	0 dB Typ.
Optical receiver sensitivity	- 22 dBm (SMPTTE 259M 270 Mbps) - 22 dBm (SMPTTE 292M 1.485 Gbps) - 19 dBm (SMPTTE 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

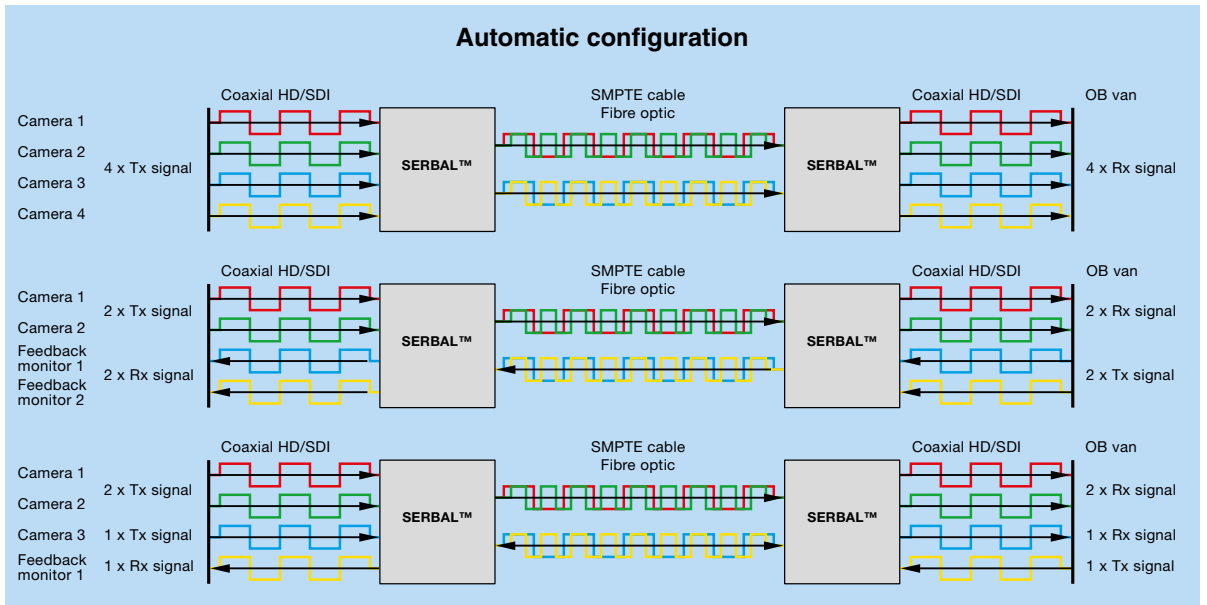
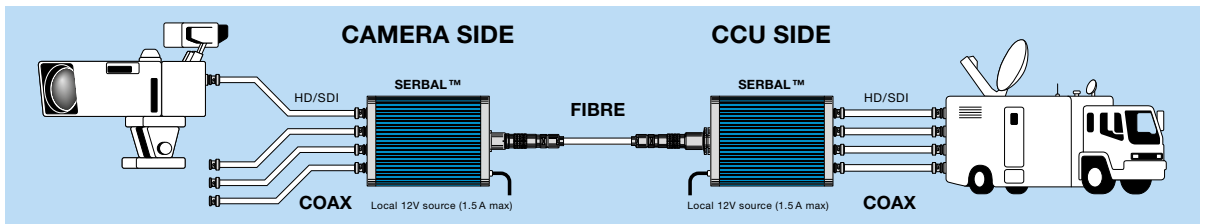
- Golf, skiing, auto racing, olympic games
- Pre-fibred venues
- Stadiums, racing tracks
- 4K video compatible

### 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: SMPTTE 424M, SMPTTE 292M and SMPTTE 259M compliant DVB-ASI at 270Mb/s.



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