VISLINK

RF Over Fibre

FibrConnect

FibrConnect is a radio frequency (RF) extension system designed for wireless broadcast applications. The advanced features of FibrConnect enable the establishment of an IP tunnel, along with the transmission of 3G-SDI or ASI signals, camera control data, and two down-converted RF signals, all through two fibre cores between the outdoor and indoor units. This solution facilitates extended RF coverage, permitting antennas to be positioned up to 1 kilometre away with power supplied via SMPTE cable, or up to 20 kilometres when powered locally.

The system is equipped with colour displays on both the indoor and outdoor units, providing real-time reporting of fibre and RF levels at the fibre input.

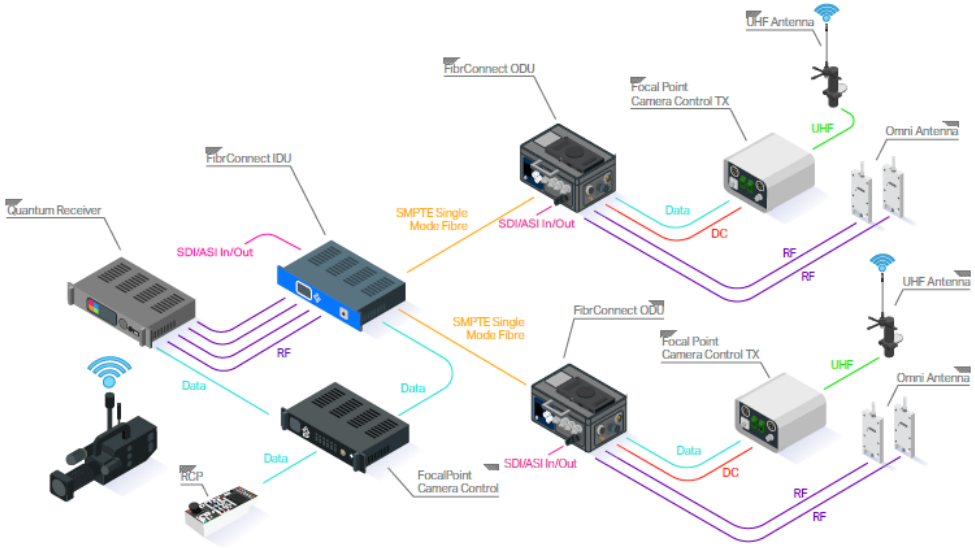
The outdoor unit can be powered via SMPTE, 12V DC, or via an IDX battery. The battery can also serve as a fail-safe in the event of a DC power failure. Additionally, the unit offers a DC output, enabling the user to power the camera control data transmitter.

Key Features

- Reports Fibre Levels at all locations
- Single Cable Solution
- Integrated Camera Control Data Path
- Bi-Directional SDI/ASI Path
- DC Output for Data Transmitter
- Battery Fail Safe Operation
- 2 or 4 RF Inputs
- Downconverter Power Over Coax (PoC)
- Extension up to 1 km via SMPTE, or 20 km with local power
- Gigabit Ethernet Pipe

Typical Applications

- Wireless broadcast Applications
- OB Productions



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FibrConnect:
Technical Specification

OUTDOOR UNIT (ODU)	
Form Factor	Ruggedised external Outdoor Unit
RF Parameters	
Frequency Range	Input: 50-3000MHz Use in conjunction with the L3025 series Down-Converters
Optical Parameters	
Wavelength	Core 1 (TX & RX): 1470+1490+1510+1530nm Core 2 (TX & RX): 1550+1310nm
User Interface	
User Interface	Keypad & LED display with enhanced visibility
Video Parameters	
Video Input / Output	Supports SDI video input or output (pass to or from IDU): • 3G SDI up to 1080p 50/60 - SDI SMPTE-259M - HD-SDI SMPTE-292M - 3G-SDI SMPTE-424M
Video Formats	• 480i @ 29.97 • 576i @ 25 • 720p @ 50, 59.94, 60 • 1080i @ 50, 59.94, 60 • 1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
Transport Stream Processing	
ASI Input / Output	Supports DVB-ASI transports stream input or output (pass to or from IDU)
Physical Connectors	
Connectors	• **Power Connector:** - 4-pin XLR • **Fibre Connector:** - See Hardware Variants below • **2x UHF In Connector:** - 75 Ω BNC (F) • **SDI / ASI In Connector:** - 75 Ω BNC (F) • **SDI / ASI Out Connector:** - 75 Ω BNC (F) • **RS485 Data Out Connector:** - 3-pin XLR (F)
Flexibility and Power Supply	
Voltage	• Input voltage range, 12V - 18V DC via 4-pin XLR connector • ODU can also be powered with optional IDX or Anton Bauer battery plates or via SMPTE Lemo cable (via Indoor Unit) - See Hardware Variants below • ODU powers 2x Down-Converters with 18V DC via UHF In Connector
Physical & Environmental	
Size and Weight	• Size: - 260 (W) x 160 (L) x 90(H) mm (Excluding handles and connectors)
Environmental	• **Operating Temperature:** -10˚C to 50˚C (14˚F to 122˚F) • **Humidity:** -95% long term

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INDOOR UNIT (IDU)	
Form Factor	1RU 19inch rack mounted chassis
RF Parameters	
Frequency Range	Input: 50-3000MHz Use in conjunction with the L3025 series Down-Converters
Optical Parameters	
Wavelength	Core 1 (TX & RX): 1470+1490+1510+1530nm Core 2 (TX & RX): 1550+1310nm
User Interface	
User Interface	• Keypad & LED display with enhanced visibility • Ethernet control via internal webserver
Video Parameters	
Video Input / Output	Supports SDI video input or output (pass to or from ODU): • 3G SDI up to 1080p 50/60 - SDI SMPTE-259M - HD-SDI SMPTE-292M - 3G-SDI SMPTE-424M
Video Formats	• 480i @ 29.97 • 576i @ 25 • 720p @ 50, 59.94, 60 • 1080i @ 50, 59.94, 60 • 1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
Transport Stream Processing	
ASI Input / Output	Supports DVB-ASI transports stream input or output (pass to or from IDU)
Physical Connectors	
Connectors	• **Fibre Connector:** - See Hardware Variants below • **2x or 4x UHF Out Connector:** - 75 Ω BNC (F) - See Hardware Variants below • **1x or 2x SDI / ASI In Connector:** - 75 Ω Micro BNC (F) • **1x or 2x SDI / ASI Out Connector:** - 75 Ω Micro BNC (F) • **RS485 Data Out Connector:** - 3-pin XLR (F) • **2x Ethernet Control Connector:** - RJ45 10/100 (one on the front, one on the rear of the unit)
Flexibility and Power Supply	
Voltage	• Input voltage range, 100 – 240VAC • SMPTE Lemo hardware variants output 48V DC on SMPTE Lemo connector to power ODU - See Hardware Variants below
Physical & Environmental	
Size and Weight	• Size: 433 (W) x 361(L) x 44(H) mm (17.0” (W) x 14.2” (L) x 1.7” (H) (Excluding connectors)
Environmental	• **Operating Temperature:** -10˚C to 50˚C (14˚F to 122˚F) • **Humidity:** -95% long term

Hardware Options OUTDOOR UNIT (ODU)	
Hardware Variants	• **RFOF-ASSY-7101 - ODU SMPTE Lemo Single Pair Antennas** - 1x SMPTE Lemo fibre connector (2x fibre cores) • **RFOF-ASSY-7102 - ODU SMPTE Lemo Single Pair Antennas IDX** - 1x SMPTE Lemo fibre connector (2x fibre cores) • **RFOF-ASSY-7103 - ODU SC/APC Single Pair Antennas** - 1x pair of SC/APC fibre connector (2x fibre cores) • **RFOF-ASSY-7104 - ODU SC/APC Single Pair Antennas with IDX** - 1x pair of SC/APC fibre connector (2x fibre cores) • **RFOF-ASSY-7105 - ODU ST/UPC Single Pair Antennas** - 1x pair of ST/UPC fibre connector (2x fibre cores) • **RFOF-ASSY-7106 - ODU ST/UPC Single Pair Antennas with IDX** - 1x pair of ST/UPC fibre connector (2x fibre cores) • **RFOF-ASSY-7107 - ODU LC/UPC Single Pair Antennas** - 1x pair of LC/UPC fibre connector (2x fibre cores) • **RFOF-ASSY-7108 - ODU LC/UPC Single Pair Antennas with IDX** - 1x pair of LC/UPC fibre connector (2x fibre cores)
Hardware Options	Pole Mount (Optional)

INDOOR UNIT (IDU)	
Hardware Variants	• **RFOF-ASSY-7001 - IDU SMPTE Lemo IDU Single Pair Antennas** - 1x SMPTE Lemo fibre connector - enables connection to 1x ODU • **RFOF-ASSY-7002 - IDU SMPTE Lemo IDU Dual Pair Antennas** - 2x SMPTE Lemo fibre connectors - enables connection to 2x ODUs • **RFOF-ASSY-7003 - IDU SC/APC Single Pair Antennas** - 1x pair of SC/APC fibre connector - enables connection to 1x ODU • **RFOF-ASSY-7004 - IDU SC/APC Dual Pair Antennas** - 2x pair of SC/APC fibre connectors - enables connection to 2x ODUs • **RFOF-ASSY-7005 - IDU ST/UPC Single Pair Antennas** - 1x pair of ST/UPC fibre connector - enables connection to 1x ODU • **RFOF-ASSY-7006 - IDU ST/UPC Dual Pair Antennas** - 2x pair of ST/UPC fibre connectors - enables connection to 2x ODUs • **RFOF-ASSY-7007 - IDU LC/UPC Single Pair Antennas** - 1x pair of LC/UPC fibre connector - enables connection to 1x ODU • **RFOF-ASSY-7008 - IDU LC/UPC Dual Pair Antennas** - 2x pair of LC/UPC fibre connectors - enables connection to 2x ODUs

Notes:

• Not all interface options are concurrently available.

• We reserve the right to change specifications at any time without prior notice.

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