



TVP OB VAN – Poland

THE OB VAN

TVP is the largest national broadcaster in Poland. It owns a large fleet of OB trucks as well as a number of DSNG vans. All TVP's vehicles are distributed around Poland stationing in Warsaw headquarters and regional branches in multiple cities around the country.

The DSNG satellite OB van, stationed in Wroclaw, is used by TVP throughout Poland and other parts of Europe (Germany, Austria, Czech Republic, Hungary). It serves sporting events (football, volleyball, basketball, horse racing, handball, hockey, archery, judo, boxing), as well as concerts, conferences and more.

The van was first modernised in 2015 and now functions as an 8-camera production truck and at the same time a satellite uplink. In 2019 it was upgraded with BroaMan Mux22 point-to-point fiber transport solution. The main goal of the upgrade was to increase the range of devices such as monitors, controllers, intercom and large outdoor screens.

SYSTEM REQUIREMENTS

- All signals transported on single redundant fiber
- HD-SDI, audio, RTS Intercom and Gbit Ethernet transport
- Auxiliary fiber tunnelling
- Comprehensive single-channel status monitoring



"I had been looking for an economical and reliable solution for a fiber optic platform for television devices for a long time. With many solutions available on the market BroaMAN Mux22 proved to be the best choice for my current needs. Thanks to these devices I am relaxed about all my signals transmitted over long distances."

Andrzej Wiszniewski, DSNG Manager

SOLUTION

The first task when the fiber solution was required was to send intercom communication to the RTS desktops during the Four Hills [ski jumping] tournament. An engineer from BroaMan partner — RTS Intercom Systems proposed the possibility of a Mux22 solution to TVP engineers.

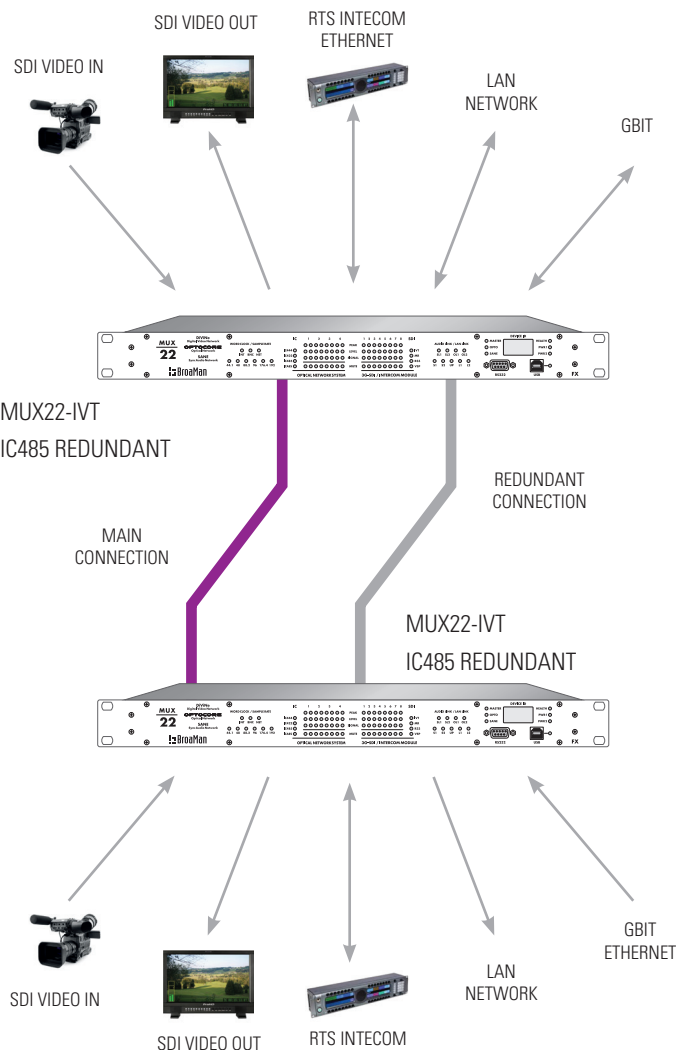
The capacity the Mux22 solution offers had become immediately apparent. From the moment TVP bought the device, they could: send intercom signals to four external RTS desks located away from the vehicle — from over 100m to 10km; send eight HD video signals to and from the OB van to the transmission site (eg stadium, Skybox, commentator positions over distances from 100m -10km); send control signals, I/O synchronization, and transmission of LAN network signals.

Mux22 devices create two fully redundant point-to-point optical links, with switching between links taking place automatically without interruption to the signal.

KEY ADVANTAGES

1. Full redundancy for 3G-SDI Video, Audio, RTS Intercom and Data transport.
2. Auxiliary fibre optic ports for Gbit Ethernet transport.
3. Optocore Control software, which monitors each fiber, video and audio signal.
4. Flexibility with transport distance up to 20km.

SYSTEM DIAGRAM



SYSTEM COMPONENTS

OPTOCORE/ BROAMAN Device	ID Number	Localization	Functions
MUX22-IVT/IC485 Redundant	1	OB VAN	4 3G-SDI IN, 4 3G-SDI OUT, LAN,4x RTS Intercom Port, RS485, 2x FIBER AUX Port
MUX22-IVT/IC485 Redundant	2	STAGEBOX	4 3G-SDI IN, 4 3G-SDI OUT, LAN,4x RTS Intercom Port, RS485, 2x FIBER AUX Port