TVU networks®

TVU MLink

Rack-Mountable Integrated Cellular/Satellite/Microwave Uplink Solution for Vehicle or In-Studio Use



- 1RU Chassis with front panel control
- Roof-mounted antennas to ensure best-possible signal strength
- Powerful Inverse StatMux technology transmits simultaneously over multiple cellular, WiFi, Ethernet, satellite or microwave connections
- Optimized low latency performance even in challenging network conditions

The TVU MLink product series delivers a complete versatile cellular ENG solution for OB vehicles and fixed locations that is designed to automatically aggregate multiple cellular, microwave and satellite connections together simultaneously to ensure that field crews have the necessary bandwidth to broadcast live real-time video in challenging environments. The TVU MLink fixed transmitters feature a 1RU chassis that will be available in two different configurations:

MLink TE4200

transmitter can transmit live video over two Ethernet connections, WiFi and up to eight cellular modem cards simultaneously. This solution also includes multiple external antennas in removable or fixed roof mounted configurations designed to give ENG vehicles optimal resiliency.

MLink TE4100

features a single Ethernet port and VBR encoding, making it the ideal choice for fixed installations.

Features

Superior Performance – TVU MLink provides the same performance, quality and functionality as the industry-leading TVUPack cellular uplink transmitters in a rack-mountable form factor. Using TVU's proprietary Inverse StatMux transmission protocols, broadcasters are able to aggregate multiple network connections simultaneously and transmit an optimized video stream that results in superior resiliency and picture quality.

Satellite and Microwave Integration – TVU MLink is fully integrated with satellite and IP-based microwave transmission systems, enabling transmission of a broadcast-quality HD signal regardless of cellular network conditions. MLink automatically aggregates all available bandwidth seamlessly, without disruption of transmission – even as satellite, microwave or cellular connections are added or dropped.

Roof-Mounted Antenna – TVU MLink offers a roof-mounted external MIMO antenna, which ensures the best possible signal strength even in challenging network environments.

Ease of Use – TVU MLink goes live with just the push of a button and no manual in-field configuration is required. Field crews can manually control a transmission using the simple front-mounted keypad on the unit and monitor live transmissions from the LCD panel.

Low Latency Transmission – TVU MLink can transmit live video with as low as sub-one second latency.

On Demand Video Retrieval – TVU MLink features an onboard SSD hard drive capable of capturing up to 12 hours of continuous footage, ensuring that your video is safe and retrievable when you need it.

HDMI/SDI Input – TVU MLink is compatible with both SDI and HDMI inputs. The MLink TE4200 supports 1080i, 720p, PAL or NTSC input formats.

Technical Specifications*

	TM4100	TM4200
Electrical	Line Voltage: 100-240V AC, 50/60 Hz 5.2-2.6A	Line Voltage: 100-240V AC, 50/60 Hz 5.2-2.6A
Configuration	1RU standard rack mount	1RU standard rack mount
Audio/Video Output	HD/SD-SDI (BNC) input - 1080-59.94i/50i, 720-59.94p/50p, 480-59.94i, 576-50i w/embedded 2-ch. Audio orHDMI (Type A) - 1080-59.94i/50i, 720-59.94p/50p, 480-59.94i, 576-50i w/embedded 2-ch. Audio	HD/SD-SDI (BNC) input - 1080-59.94i/50i, 720-59.94p/50p, 480-59.94i, 576-50i w/ embedded 2-ch. Audio or HDMI (Type A) - 1080-59.94i/50i, 720-59.94p/50p, 480-59.94i, 576-50i w/ embedded 2-ch. Audio
Network Interface	1 x 10/100/1000 BASE-T RJ45 Ethernet port. Plus dedicated port for Hotspot	2 x 10/100/1000 BASE-T RJ45 Ethernet ports and up to 7 USB data card interfaces (2.5G/3G/4G/WiMax) via modem module. Plus dedicated ports for WiFi and Hotspot
Display	Display Port and HDMI output (user interface)	Display Port and HDMI output (user interface)
Control	Front panel backlit LCD and keypad	Front panel backlit LCD and keypad
IFB Output	3.5mm headphone jack	3.5mm headphone jack
Dimensions	1U, 482.6 x 44.4 x 257.05 mm, 19" x 1.75" x 10.1"	1U, 482.6 x 44.4 x 257.05 mm, 19" x 1.75" x 10.1"
Weight	4.3 kg/9.4 lbs	4.3 kg/9.4 lbs
Operating Environment	0 to 35 degrees C, 32 to 95 degrees F	0 to 35 degrees C, 32 to 95 degrees F

*Specifications and features are subject to change without notice

www.tvupack.com
857 Maude Avenue, Mountain View, CA, 94043
TEL:+1.650.969.6732