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UltraLink-4K Datasheet

UltraLink-4K Family of Enterprise H264/H.265 Encoders For Mobile and Remote Production

- Livestreaming
- Multi Camera
- 4K
- 5G
- Store & Forward
- Return Audio/Video



Key features

- 4x HD (3G)/ 1x 4K (12G)
- Supports up to 40 MB/sec
- 8 modems, configurable between 4G and 5G
- LAN & Wi-Fi connection (bonded with cellular)
- Satellite enablement option (CBR encoding)
- Adaptive Bitrate encoding
- Error Correction
- Store & Forward (FTP Upload)
- Multicam option with camera sync
- Linkmatrix – free remote feature-rich management secure platform
- Touch Screen for local management
- Decoding Options including HD-SDI, NDI, RTMP, RTSP, MPEG-TS, SRT
- Encryption 
- IFB Support
- Video Return
- Dome Antenna Options
- Bronze, Silver and Gold Support Available
- 1 year warranty

The UltraLink-4K encoder is part of the premium encoder range of MVP. The feature-rich transmitter enables instant live streaming over multiple bonded 3G/4G/5G/Wifi/Satellite connections for outside broadcast and mobile surveillance applications.

The rugged and portable units can support many different camera types for live streaming either back to a broadcast center with SDI workflows, to a cloud based platform supporting IP workflows, or to a command and control center supporting ONVIF compliant workflows.

The Ultralink-4K can support either 1x 4K camera, can support up to 4x HD cameras simultaneously making it perfect for either high resolution live streaming, or ideal for multi-camera live productions with the channels synched.

The Ultralink-4K is ideal for ultra-reliable and low latency streaming for many broadcasters, sports production, or for government, security or law enforcement agencies for surveillance where high quality and ease-of-use is critical.

The Ultralink-4K provides an IP hotspot at the same time as video encoding, can support IFB for audio intercom, can provide a return video from the receiver, and Store&Forward that allows upload of recorded files in addition to live streaming.



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The units work as a point-to-point transmission without relying on any other cloud services and their monthly subscriptions. This allows for a more secure connection, lower cost, and can support AES 256 encryption.

The whole encoder, decoder and transmission can be managed via LinkMatrix, MVP's management platform, that is provided free-of-charge as a managed service to allow complete remote operation, tracking and diagnostics of units in the field and their associated receivers.

MVP also offers a range of cloud based decoding services without the need for a decoder for live streaming to OTT platforms, cloud based video switchers and editors, and/or live streaming directly to social media platforms.

The UltraLink-4K is the very latest in mobile encoding with 2 levels of error correction for ultra-reliability, 4K, 5G, cloud workflows, IP hotspot, IFB, video return and support for emerging LEO satellites such as Starlink from SpaceX.



Available models

- **UltraLink-Air 4K:** 1 x UHD-SDI, zero HDMI inputs but has 1 video return (total 1)
- **Also available is the UltraLink-A**

Decoding options

The UltraLink-4K provides a point-to-point connection and does not rely on a third party cloud platform for debonding.

A number of decoding options are available at the receiving end.

A cloud decoding option is also available allowing IP live feed streams to CDN's, social media and other IP platforms.

MVP Workflow broadcast



	UltraLink-4K	UltraLink-Air
Encoder		
H264 and H265	H264 and H265 (4c)	H264 and H265
Maximum Bandwidth	40 Mb/s	20 Mb/s per channel
Store & Forward	✓	✓
Total number of modems	8	8
Total no of SDI connections	4	1C (1), 2C (2), 4C (4)
Total no of HDMI connections	1 video return channel	1C (1), 2C (2), 4c (4) - 1 for video return
Total no of IP connections	2	2
Delay / latency	0,8 - 60 seconds	0,8 - 60 seconds
Encryption	AES-256	AES-256
Error correction		
i) AARQ - Adaptive Automatic Retransmission Request	✓	✓
ii) WMT - Wireless Multiplex Technology	✓	✓
Network connectivity		
No. of Sim Cards (3G/4G)	4 modems	8 modems
5G Compatible (can be used for 3G/4G)	(4x 5G & 4x 4G) OR (2x 5G & 6x 4G) OR (7x 4G & 1x 5G) – maximum of 8 modem connections.	(4x 5G & 4x 4G) OR (2x 5G & 6x 4G) OR (7x 4G & 1x 5G) – maximum of 8 modem connections.
Wifi	✓	✓
Ethernet ports	2	2
Satellite support	BGAN/Starlink (extra s/w license)	BGAN/Starlink (extra s/w license)
Hosted Management		
Linkmatrix Compatible	✓	✓
Social Media for cloud decoding	✓	✓
Accessories		
Dome Antennas	✓	✓
Backpacks	✓	✓
Camera Mount Kits	✓	✓



	UltraLink-4K	UltraLink-4K xC
Camera inputs		
Multicamera support	✓	✓
SDI inputs	4 × 3G SDI / 1 × 12G SDI	1C (1), 2C (2), 4C (4)
HDMI inputs	n/a	1C (1), 2C (2)
Ethernet inputs	(simultaneously send IP stream)	✓ (simultaneously send IP stream)
(Wifi camera support)	✓	✓
Video Support		
(Wifi camera support)	can use single input for HD/SD	✓
(Wifi camera support)	(frame rate 25/30/50/59.94/60)	✓ (frame rate 25/30/50/59.94/60)
Sync on multichannel encoders	✓	✓
Video Resolutions Supported		
	Support for input video resolutions up to 4096×2160 pixels including SD/HD/3G/6G/12G SDI	SD Format Support 525i/59.94 NTSC, 625i/50 PAL
	Option for HDMI v2 input supporting 4K available on request. Please contact us	HD Format Support 1080i/25/30/50/60, 1080p/25/30 (1080p/50/60 available on request – please contact us)
Other Outputs		
USB Options	2	2
HDMI output (for video return)	✓	✓
RCP & Tally & Intercom	Optional	Optional
Store & Forward		
Rec & Live Stream simultaneously	128GB (on request more GB available)	128GB (on request more GB available)
Rec & Live Stream simultaneously	✓	✓
File trickle Upload via USB	✓	✓



	UltraLink-4K	UltraLink-Air
Audio		
No of channels	8	2 by default (4 or 8 by s/w license)
Audio Format (embedded)	Embedded audio (12 - 128Kbit per channel)	Embedded audio (12 - 128Kbit per channel)
IFB Audio	13,5 mm Jack (mini XLR on request)	13,5 mm Jack (mini XLR on request)
Intercom (multi-channel audio)	13,5 mm Jack (mini XLR on request)	13,5 mm Jack (mini XLR on request)
Power		
Power requirements	12 - 24V	12 - 24V
Internal battery	On request	On request
Vlock plate		✓
Anton Bauer plate	On request	On request
Main power supply (included)	4-pin XLR	4-pin XLR
Internet Hotspot		
Wifi	✓	✓
Ethernet	✓	✓
Hardware		
Screen for admin/playback	✓	✓
Size	26 cm x 19 cm x 10 cm (W x B x H)	20,5 cm x 12,5 cm x 5 cm (W x B x H)
Weight	1.7 KG	1.7 KG
Ruggedized Casing	✓	✓
Operational Temperature	-5C to +45C	-5C to +45C
Decoders supported	ALL	ALL
Support		
Support - 1 year warranty	Bronze (pay-as-you-go), Silver (business hours), Gold (24/7)	Bronze (pay-as-you-go), Silver (business hours), Gold (24/7)