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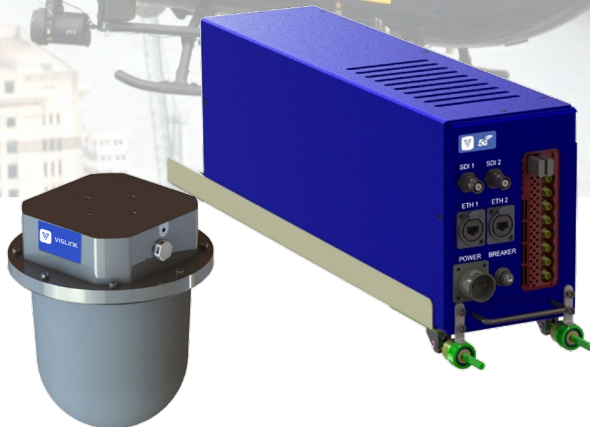
Aero5 Datasheet

Aero5 5G HEVC 4K UHD Airborne Transmitter

Air-Cellular Bidirectional Link

ENG/Events/Live Sports

Public Safety/ISR



The Aero5 LTE/5G Cellular-Based System provides an extended bi-directional link using local cellular infrastructure as the receive system. This may be used as a stand-alone cellular based downlink or combined with the AeroLink COFDM transmitter to provide a robust hybrid solution. The Aero5 technology creates a reliable high-throughput connection between air and public cellular infrastructure. The Aero5 may be used for video, file transfer, data, push-to-talk coms, or network connectivity.

The Aero5 is a two-box solution consisting of the Aircraft Cellular Encoder/Transceiver IDU and the Aero5 Antenna Pod. The IDU chassis design is sized to fit in a vertical ARINC mounting and has all connections on the front panel enabling easy access and maintenance. The output connects via a MIL Spec cable/connector to the Meeker Mount based pod on the outside of the aircraft. The Meeker Mount Aero5 Antenna Pod is DO-160 G tested.

The Aero5 enables the aircraft to be part of the ground ecosystem, allowing tactical units to take advantage of all the mission-critical data that may be garnished. The Aero5 uses the award-winning MVP UltraLink mobile encoder, part of Vislink's bonded cellular flagship products that have long been recognized for their ability to deliver high-quality, low-latency live video streaming capabilities. This makes the Aero5 the most technologically advanced 5G/LTE bonded cellular mobile encoder solution available for airborne video downlink applications today.

Key features

- o Mobile H.265/H.264 4K Encoder
- o Multi camera – 1 or 2 input model available
- o 8 internal modems (3G/4G/5G), Ethernet, Wi-Fi
- o Inputs – HD-SDI (3G), UHD-SDI (12G) on request
- o IP outputs – NDI, RTMP, RTSP, MPEG-TS
- o Internet hotspot (LAN and Wi-Fi)
- o Data and Video Storage
- o KLV Meta Data
- o AirRinc Frame
- o Restful API for Integration

Typical applications

- o Law Enforcement
- o ISR (Military and LE)
- o First Responders
- o National Security
- o Unmanned Aerial Vehicles
- o Event Coverage
- o Newsgathering
- o Sports Coverage
- o Ship-to-Shore



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Aero5

Encoder

Video Encoder

HEVC (H.265)

UHD, HD and SD
Main, Main 10, Main 4:2:0 (8-bit)
UHD (1 Service)
HD (up to 2 Service)

MPEG-4 AVC (H.264)

HD and SD
Main, High, Baseline up to Level 5.2, High 10/High 4:2:2

Maximum Bit Rate

40Mb/s

Video and Audio

Video Input Type

2x SD-SDI SMPTE-259M
2x HD-SDI SMPTE-292M
2x 3G-SDI SMPTE-424M
1x 12G-SDI SMPTE-2082
Transport stream (IP Input)
Wi-Fi

Return Video

HDMI

Formats

480i@29.97
576i@25
720p@50/59.94/60
1080i@50/59.94/60 (HEVC only)
1080p@23.98/24/25/29.97/30/50/59.94/60
2160p@23.98/24/25/29.97/30/50/59.94/60

IP Inputs

NDI
SRT
RTMP
RTSP
UDP/RTP

Audio Input

Embedded 4 Stereo Pairs

Audio Communications

Intercom and IFB COMMs via 3.5mm jack

Coding

Advanced Audio Coding (AAC)



	Aero 5
Connectivity	
Modems	1-8
Compatability	5G/LTE Bonded
Ethernet Ports	2
Satellite Support	BGAN/Starlink (Optional)
USB	2
System	
Local Storage	128 GB Record and Play-it-Forward
Internet Hotspot	Wi-Fi Ethernet
Power	Aircraft Power (28vDC)
Optional License	
AERO-LICE-0001	4K UHD HEVC Encode (available upon request with hardware upgrade only)