

## SOFTWARE DEFINED RADIO

### OVERVIEW

The **Hornet-US SDR** is a digital video transceiver from SATCOM, specially crafted for Point of View (PoV) and Unmanned Systems applications. The **Hornet-US** offers an ultra-compact design, perfect for seamless integration into even the smallest systems. Depending on the loaded applications, this platform can function as a Transmitter, Receiver, Dual Encoder, and IP Mesh Radio node. The integrated dual HD H.264 video encoders offer ultra low latency for responsive UxV control.

Data Rates are automatically varied from 0.5 to 87 Mbps depending on the available SNR. The best throughput during a mission is achieved by automatically adapting the frequency bandwidth between 1.25Mhz and 20Mhz and the modulation between 4QAM(QPSK) to 64QAM with the option to switch over to another available link with a better link throughput capacity.



### FEATURES & BENEFITS

- Dual high profile HD H.264 independent video encoders
- 2x100mW COFDM transceivers for use as COFDM Transmitter, Receiver or IP Mesh
- Dual SD/HD-SDI video inputs for recording, transmission and analysis
- Microphone inputs and headphone output for recording, transmission or talkback
- Growing USB support for peripherals such as 3G/4G/Wi-Fi dongles
- Ethernet, RS232 and RS485 connectivity and 128GB built in storage
- Optional AES128/256 encryption
- Compact packaging with ultra-miniature connectors
- Very low power consumption: typically 7.5W
- Exceptionally small size: 50mm x 50mm x 18mm
- Weighs only 70-82g

### PRODUCT INFORMATION

Product Includes:
Ethernet JST cable
DC power JST lead
Ethernet Magnetics PCB
Gecko breakout PCB
SOL8SDR-C support USB stick
SMP (female) to SMA (female) cable 200mm

Contact us for various amplifiers, 1-5W versions available.