



HORUS

TECHNOLOGIES

Intelligence & Security Solutions

SHED FAMILY

Digital Data/Video Link

SHED-OFDM_T2

SHED-OFDM_T2 is a compact, cutting-edge digital video/audio RF link (transmitter + receiver) for mobile applications, with unmatched performance. It has been designed to take advantage of the excellence of the digital codec and modulation systems.

SHED-OFDM_T2 employs **OFDM** (Orthogonal Frequency Division Multiplex) modulation with a large number of sub-carriers and offers a range of different modes, making it very flexible to be adapted to the various types of applications.

SHED uses very strong and efficient error correction algorithms: **LDPC** (Low Density Parity Check) coding combined with **BCH** (Bose-Chaudhuri-Hocquengham) coding, offering a very robust signal. It also employs time and frequency interleaving.

Key Features

- Available in a wide range of housings to best suit the application (onboard drones, helicopters, ground vehicles, etc.)
- Various types of antennas available (omni or unidirectional – linear or circular polarized)
- Standard frequency range: 800 – 1.000 MHz and 2,2 – 2,5 GHz (options for different operating frequencies from 70 MHz to 3 GHz)
- Unmatched performance allowing, with only 2W RF power and employing omnidirectional antennas, to have stable connections at a distance of over 60 km with fluid video @ full HD resolution and occupying only 1,5 MHz RF bandwidth (LOS – Line Of Sight – required)
- Excellent performance also in case of NLOS (Non Line Of Sight)
- Highly efficient RF power amplifiers ranging from 1 to 10W RF output power
- 1 HD-SDI or SD-SDI video input
- Complete range of options and configurations to satisfy any need (including video encryption)

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SHED-IP

SHED-IP is a compact, cutting-edge high-power, Hexa band RF digital data link that provides throughput and range needed for complex data intensive applications. It offers software selectable operations in six frequency bands between 1.6 and 2.5 GHz. It is suitable for mobile applications, with unmatched performance. It has been designed to take advantage of the excellence of the digital codec and modulation systems.

SHED-IP is also a world-class solution for streaming and accessing video over low or variable bandwidth networks. It provides high quality, low latency and resilient approach to real-time video and audio transmission. It combines a proprietary video codec and an ultra-efficient, adaptive approach to managing the underlying communications bearer. This results in far more reliable and cost-effective, real-time video.

Key Features

- Up to 2W power output
- Software selectable frequencies from 1.6 to 2.5 GHz
- Transmission range > 30 Km
- Up to 4 live video streaming from 4 Kbps
- Data and video transmission
- For man and UAV/UGV applications
- Suitable for UAV/UGV telemetry transmission
- Point to Point, Point to Multipoint and Mesh connection
- Suitable for swarm configuration
- On air module 1U MOD 5.1 ready

