Troll’s Network LinkBox II provides unsurpassed air-to-ground connectivity for ISR aircraft and tactical vehicles. A multi-band data link and payload controller, LinkBox II integrates a vast array of modems, sensors, video processing, power distribution and data management. IP based, this high-performance, airborne data terminal provides single or dual-channel transceivers that can accommodate an array of tactical or commercial waveforms. Its onboard supercomputer is used to accelerate encoding, decoding and encryption while providing the ability to identify and track objects on maps or sensor images.

Standard configurations include bidirectional DVB-T transmitter and receiver pairs with two DVB-T modulators and two DVB-T demodulators. These operate in multiple bands from 1.2GHz to 7GHz. Users can control multiple channels of data from modulators or demodulators to provide redundancy or increased data rates depending on mission conditions. Transmission bandwidths range from 2 MHz to 16 MHz which can support data rates of up to 40Mbps. Unlike other bidirectional data links, Network LinkBox II can sustain maximum data rates to within 5% of link margin with end-to-end latency less than 50ms.

**Supercomputer Module**

Network LinkBox II incorporates a 64-bit supercomputer that provides accelerated video encoding, decoding and image control. The ability to process complex calculations quickly enables Troll’s software defined video stabilization to occur before camera footage gets encoded. This unique image processing sequence removes camera shake to enhance encoding efficiency and performance. This capability vastly improves video quality and exploitation value.

LinkBox II features multiple high quality 4k, SDI inputs and standard HD 1080p. Internal H.265, H.264 encoders are capable of routing one or more of these high-quality transport streams to a ground station while simultaneously recording to a built-in DVR. This allows mission exploitation to occur in real-time or play back from the aircraft with time delay. Particularly useful if reception becomes limited and bandwidth constrained, the DVR time delay ensures that air-to-ground video quality is maintained regardless of conditions onboard the aircraft.
# LinkBox II Specifications

Specifications subject to change without notice.

## Single or Dual Multi-Band Transceiver
- **DVB-T Compliant TX / RX**
- **Data Rate**
- **Bandwidth**
- **Latency**
- **Output Power**

## Optional MIMO Radios
- Two SDI and Analog
- Two SDI Simultaneous HD Video Outputs (up to 4k)
- Two HDMI - 1080p 60

## Embedded Super Computer:
- **Microprocessor:**
- **Ram Memory:**
- **Solid State Memory:**
- **Multi-Channel Video Encoding/Decoding**
- **Encryption**
- **Managed Ethernet Switch**

## Multi-Channel DVR with Time Delay Playback
- **500GB to 2TB**

## Power Supply and Distribution
- **Input Power:** 200W maximum - 11-32VDC (6A @ 28VDC)
- **Relay Drivers:** Eight (8) General Purpose Relay Drivers

## Weight:
- **< 10lb (4.54kg)**

## Software Defined Video Processing
- **Real-Time Image Stabilization**
- **Digital Zoom**
- **Area or Interest and Image Scaling**
- **Image Tracking**
- **Image Fusion**
- **Image Blending**
- **ROI**
- **Object Identification**
- **Object Tracking**