The JaegerTR is a standalone Bandwidth Efficient Common Data Link (BE-CDL) tactical software-programmable radio. It is built on a versatile platform that provides Secure CDL Intelligence Surveillance Reconnaissance (ISR) (SCISR) radio waveform interoperability and supports additional tactical protected waveforms and algorithms. The COTS JaegerTR features affordable multi-band, multi-waveform capabilities in a miniaturized, low Size, Weight and Power (SWaP), fully ruggedized package. It equips any tactical platform with a turn-key ISR and Command and Control (C2) secure communications solution.

JaegerTR has been designed to support Group 2 - 5 UAS platforms with secure Common Data Link (CDL) interoperability. It is flight ready and offers agile and affordable flexibility. With a small form factor, extended transmission range, and SDR-driven waveform adaptability, the JaegerTR is an ideal solution for both airborne and ground applications. It meets the restrictive Size, Weight and Power (SWaP) demands crucial to mission success and is specifically designed with spectrally crowded or contested environments in mind.

Mission Ready with Agile Software-Defined Performance
The JaegerTR is designed to meet both existing and future tactical communications needs. New protected waveforms and innovative signal-processing algorithms can be deployed via software updates to the platform. It supports multiple CDL waveforms and is flight-proven on the United States Marine Corps’ SCISR program. The adaptable JaegerTR SDR platform allows timely mission-critical enhancements in response to changing warfighting requirements.

The JaegerTR supports ISR missions by providing DoD compliant BE-CDL at speeds up to 45 Mbps in L, S and C frequency bands. It supports full Type 1 encryption via National Security Agency’s new KIV/CCM 700 modules (backwards compatible to the KGV-135A). In addition to BE-CDL, the JaegerTR also supports backwards compatibility with several legacy CDL waveforms that include BE CDL Rev A and the To-Be-Sunset (TBS) (Vortex Native, Tactical Data Link, 466ER) waveforms. The data and control interface to the radio are standard Ethernet enabling easy integration with existing data sources. Discovery CDL and Standard CDL can also be added to the JaegerTR.

The JaegerTR design can also be delivered in a non-crypto enabled version to support U.S. commercial applications and/or testing and evaluations.
JaegerTR is a key enabler in achieving communications superiority, giving the warfighter command and control (C2), and ISR data assurance in today’s complex operating environment.

**Jaeger Product Specifications**

**Physical**
- Size: 5.0” x 2.25” x 0.6”
- Weight: < 8 oz.
- Power consumption: 20W

**Interfaces**
- Dual 10/100 Ethernet via 25-pin Micro-D
- DS-101 via 25-pin Micro-D
- 10-32 VDC power via 25-pin Micro-D
- Three configurable SMA ports – input/output per band (L, S, C)

**Environmental**
- Shock & vibe: MIL-STD-810F
- EMI/EMC: MIL-STD-461
- Operating temp: -37C to +60C

**Performance Characteristics**
- Supports C, L, and S bands
- RF Output Power: 2W

**Waveform Options**
- BE-CDL
- 466 ER
- Tactical 1.6, 3.2, 6.4
- Vortex native

**Encryption**
- NSA Type 1
- KIV700/CCM
- AES

**Use Cases**
- Airborne data link allowing ISR and command and control C2 data transmission (manned and unmanned aircraft/payloads)
- Remote Video Terminals (RVT)
- Communications relay for payload or C2 - airborne or man carried