The L3 BANDIT—Miniature L- and S-band transceiver is a low-cost, lightweight, wideband data link and all-in-one digital transceiver adaptable to a wide variety of applications. The link is protected with AES encryption. With standard network interfaces and a built-in router, the BANDIT is fully net-ready and is a powerful, tactical gateway into the net-centric battlespace.

**Key Features**

- Low cost and SWaP
- Video and data routing and relay capability
- Symmetric digital data rates up to 6.4 Mbps
- AES encryption
- Ethernet port to pass imagery and data to and from a network

- Small, fully ruggedized, all-in-one system—internal amplifier for each band
- Configurable L- or S-band operation for either TX or RX
- Interoperable with ROVER® and OSRVT products
**BANDIT—Miniature Dual-Band Transceiver**

**Product Description**

The L3 BANDIT dual-band transceiver is a small, lightweight and low-power digital transceiver that provides wideband data link capability adaptable to a wide variety of applications. It delivers real-time, IP-based, full-motion video for situational awareness, targeting, battle damage assessment, surveillance, convoy operations and other situations where eyes-on-target are required. The BANDIT supports digital data rates up through 6.4 Mbps and has AES encryption. It is fully interoperable with ROVER® and OCSRVT technologies using government-standard waveforms and has built-in MPEG-2 and MPEG-4 video compression. The L- and S-band frequencies are centered around standard analog frequency ranges making the BANDIT a perfect replacement for L- and S-band analog links to add better-performing digital signal transmission and improved security.

**Specifications**

**Performance Characteristics**

**RF**
- Transmit (TX) and Receive (RX) bands (simultaneously uses one band for TX and the other band for RX):
  - L-Band: 1,625 MHz to 1,850 MHz, 0.5 MHz steps
  - S-Band: 2,200 MHz to 2,500 MHz, 0.5 MHz steps

**Encryption**
- AES
- Triple DES

**Video Compression**
- H.264
- MPEG-4
- MPEG-2
- MJPEG

**Networking**
- IPv4

**External or User Interfaces**
- RS-170, analog video input/output (NTSC, PAL)
- RS-232 (qty. 2)
- 10/100 Base-T Ethernet

**Physical Characteristics**

**SWaP:**
- Size: 5.11" (l) x 2.85" (w) x 0.78" (h)
- Weight: < 0.6 lb.
- Power
  - Input voltage: 10 to 30 VDC
  - Power consumption: 23 watts maximum
  - RF output power: ≥ 29 dBm in either band

**Environmental**
- Altitude < 50,000 feet
- Temperature:
  - -30 °C to 49 °C operating
  - -40 °C to 85 °C, non-operating
- Vibration: 4.12 gRMS

**Applications**

Ideal for very small UAVs. Applications include: ScanEagle (shown on cover), Predator, Hunter, Firescout, and other tactical and/or small UAVs and aircraft.

**Digital Waveforms**

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¹Tactical data rates include 1.6, 3.2 and 6.4 Mbps.
²VNW data rates range from 50 kbps to 5 Mbps.

Data contained within this document are summary in nature, addressing general capabilities and subject to change without notice at any time at L3 Technologies’ sole discretion.

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