

WHEN THE MISSION MATTERS



KEY FEATURES

- Embedded 802.11b line-of-sight (LOS) communications capability
- Optional SATCOM (prioritized data configuration)
- Four (4) additional RS-232 ports (used for SATCOM or optional)
- Embedded 3 port Ethernet switch if all SATCOM used, no spare RS-232
- JPEG 2000 video compression
- Multi-band redundant communication
- Configurable data routing

Data Link System

linkTEK™ data link system offers a radio agnostic multi-layered communications software package that enables multi-vehicle IP-based messaging (TCP/IP, UDP/IP) network.

linkTEK comes equipped with 802.11b line-of-sight (LOS) communications capability that provides for optional external signal amplification.

linkTEK enables data broadcast to multiple IP addresses in an ad hoc network.

linkTEK comes equipped with four serial communication ports that are used for the optional BLOS satellite modems. Up to four satellite modems can be used simultaneously to increase the BLOS data bandwidth. Alternatively, these communication ports may be used for other LOS serial modems.

linkTEK comes optionally equipped with an internal JPEG 2000 video capture and compression capability that enables *linkTEK* to transmit digital video over the 802.11b LOS link or optional BLOS link.

linkTEK permits data routing to multiple receiving stations.



linkTEK™ FLIGHT CONTROL TECHNOLOGIES

linkTEK™ FEATURES



REMOTE UNIT

Remote Unit: located on the unmanned vehicle(s)

Remote Unit Overview

Size 5.5" x 5.75" x 4.37" (added clearance required for mounting & cabling)

Enclosure Aluminum

Weight (w/Video Capture Board) 53 oz -or- 3.29 lbs. (w/o Video Capture Board) 50 oz -or 3.09 lbs

Power (w/Video Capture Board) 9-32 VDC 18 W (w/o Video Capture Board) 9-32 VDC 14.5 W

Serial ports 4 (used for external radio modems)

External ports 4 Ethernet ports - 10/100 Mbps

Video Capture/Compression Module: (Optional)

Single - channel video capture
 NTSC or PAL video inputs
 Video compression JPEG2000 standard - 15 frames/second @VGA, 24 - bit color
 BNC External Connection

802.11b LOS Module
 802.11b 11 Mbps PCI Type IIIa card
 3.3V Operating Voltage
 Automatic data rate fall back at 11, 5.5, 2 and 1 Mbps
 Improved 64/128-bit WEP engine
 Intersil Prism 2.5 chipset, firmware 1.1.0/1.49
 Quoted Range: 2km @ 0.8 W, extensible to 20km using external amplifier
 External connection available for signal power amplification



SATCOM MODEM

Modem: Attached to remote unit and/or embedded in base unit.
 Satcom Beyond LOS Module External to linkTEK Module
 GSP-1620-Satellite Data Modem Used Manufactured by Qualcomm® accessed through Globalstar™ satellite network*

Weight (Single Modem) 31 ounces (Dual Modem) 39 ounces

Dimensions (Single Modem) 17" x 3.5" x 1.25" (Dual Modem) Same as Single Modem

Supply Power (Single Modem) 5.6-16 VDC**, 5.5 Watts (Dual Modem) 5.6-16 VDC**, 11 Watts

Operating Frequencies (Transmit) 1610-1625 MHz (Receive) 2484-2499 MHz

Transmit Output Power (Each Modem) 26dBm/0.4 Watts

*Service plans available through Globalstar
 **Modem power supplied by linkTEK data connection



BASE UNIT

Base Unit: located at the command and control station

Size 19.0" W x 5.25" H x 23.25" D (including removable feet and handles) (3U 19" rack mount)

Enclosure Aluminum

Weight 11.75 lb to 15.0 lb

Power 85-265 VAC, 47-63 Hz, <1 Amp

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L-3. Leading. Headquartered in New York City, L-3 Communications employs over 63,000 people worldwide and is a prime system contractor in aircraft modernization and maintenance, C3ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, systems and subsystems. The company reported 2006 sales of \$12.5 billion.

