

Unmanned Systems

linkTEK™ FLIGHT CONTROL TECHNOLOGIES

WHEN THE MISSION MATTERS



KEY FEATURES

- Embedded 802.11b/g line-of-sight (LOS) communications capability
- Optional SATCOM (prioritized data configuration)
- Four (4) additional RS-232 ports
- Embedded 5-port Ethernet switch - 4-ports available
- JPEG 2000 video compression
- Multi-band redundant communication
- Configurable data routing, system operator, and network topologies

DATA LINK SYSTEM

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

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

linkTEK™ enables data broadcast to multiple IP addresses in many different network topologies.

linkTEK™ comes equipped with four serial communication ports. These communication ports may be used for other LOS serial modems or other serial driven devices. *linkTEK™* houses a 5-port Ethernet switch of which 4 interfaces are not used. These 4 Ethernet ports can be used to interface to SATCOM modems, other computers, LOS radios and other IP-capable devices.

linkTEK™ comes optionally equipped with an internal JPEG 2000 video capture and compression capability that enables *linkTEK™* to transmit digital video over any interface physically available.

linkTEK™ enables data routing to multiple receiving stations leveraging the communication interfaces configured with the system.



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linkTEK™ FEATURES



Remote Unit:	located on the unmanned vehicle(s)		
Remote Unit Overview			
Size	5.5"x5.75"x4.37" (added clearance required for mounting and cabling)		
Enclosure	Aluminum		
Weight (w/Video Capture Board)	53oz-or-3.29 lbs	(w/o Video Capture Board)	50 oz-or-3.09 lbs
Payload (w/Video Capture Board)	9-32 VDC 22W	(w/o Video Capture Board)	9-32 VDC 14.5 W
Serial Ports	4 RS-232, RS-422		
External ports	4 Ethernet ports - 10/100 Mbps		
Video Capture/Compression Module: (Optional)			
Single - channel video capture			
NTSC or PAL video inputs			
Video compression JPEG 2000 standard - 30 frames/second @ VGA, 24 - bit color			
BNC External Connection			
802.11b LOS Module			
3.3V Operating Voltage			
Automatic data rate fall back at 11, 5.5, 2 and 1 Mbps			
Ubiquiti extended Range II			
32 bit mini-PC 1 type III A			
3.30 watts tx power			
IEEE 802.11 b/g			



Modem: Inmarsat SB-lite modem suggested which supports swift Broadband. Can tether to any IP-capable SATCOM modem/system.

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 2008 sales of \$14.9 billion.

To learn more about L-3, please visit the company's Web site at www.L-3com.com.



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