

Unmanned Systems

linkTEK™ INFORMATION DISSEMINATION SYSTEM

WHEN THE MISSION MATTERS

BLOS / LOS AND NETWORKED COMMUNICATIONS

linkTEK™ information dissemination system (IDS) enables intelligent data using IP (UDP/IP) over multiple interfaces simultaneously while managing each interface independently. These interfaces include wireless line-of-sight (LOS) and beyond line-of-sight (BLOS) option as well as wired Ethernet allowing for data and video to be delivered to and from many nodes in very dynamic and mobile networks.

linkTEK also includes a configurable set of interfaces allowing users to leverage different options for LOS/BLOS communication including SATCOM.

linkTEK supports data communication over BLOS interfaces including the Inmarsat satellite communication (SATCOM) network.

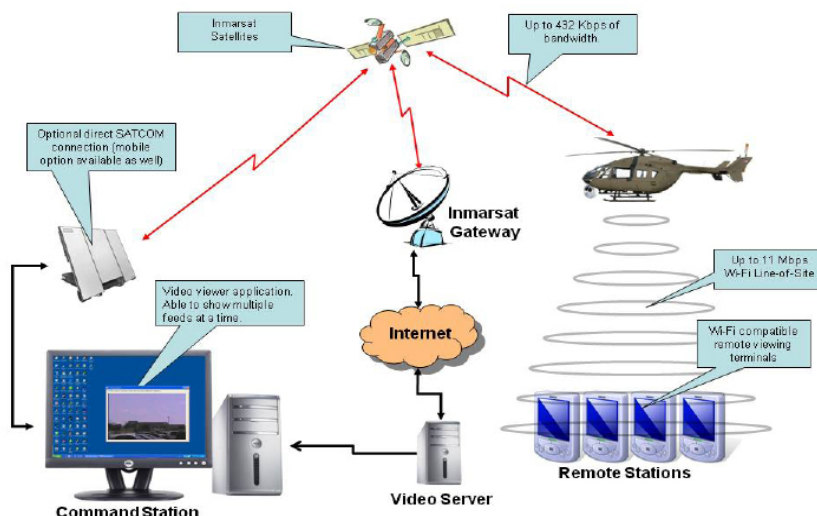
linkTEK is equipped with an embedded Wi-Fi (802.11) line-of-sight (LOS) communication capability for close range high rate data dissemination which also doubles as a maintenance interface. *linkTEK* IDS also supports 3rd party LOS radios that can be enabled by simple in-field configuration update such as the L-3 Telemetry East wave relay true mobile ad-hoc mesh network radio.

linkTEK is equipped with an embedded JPEG2000 video compression system for standard NTSC/PAL video signals. A corresponding JPEG2000 viewer application is provided that can be hosted on most COTS computers or smaller COTS PDA devices.



Key Features

• Optional SATCOM using Inmarsat service	• Embedded four (4) port Ethernet switch
• Digital video and data dissemination	• Windows-based video viewer application
• 802.11b Wi-Fi LOS communications	• Configurable interfaces
• Air, land, maritime compatible with SATCOM terminals with IP data interfaces	• Extendable communication channels through 4 RS-232 data ports and embedded 4-port Ethernet switch
• Intelligent data routing	• Optional high-bandwidth, long-range, ad-hoc LOS
• Bandwidth management over each interface independently	



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linkTEK™ SYSTEM SPECIFICATIONS

linkTEK™ DV Router	
Size	5.5" x 5.75" x 4.37"
Weight	53 oz. (3.29 lbs.)
Power	9-32 VDC 22W
Serial Ports	RS-232 / 422
Connectors	Ethernet, RS-232, Video, 802.11 SmA Antenna



**linkTEK™
DV Router**



linkTEK™ Air SATCOM

linkTEK™ Air SATCOM	SBU	HPA/LNA	IGA (TT 5006A)
Size	12.6" x 2.25" x 7.6"	10.6" x 7.8" x 1.9"	22" x 5.9" x 4.9"
Weight	5 lbs.	6 lbs.	5.11 lbs.
Power	28 VDC		12 VDC
Consumption	30W		
Consumption (Max)	50W		
Interfaces:	RJ-45 Ethernet Interfaces (Incl. 1 Maintenance Interface on Front) – Qty. 7 RJ-11 2-wire Interfaces (LSV or Fax/STU via 3.1 KHz Audio) Data Rates - up to 432 kbps; coverage world-wide except for poles.		



IDS Server

linkTEK™ IDS Server	
PowerEdge R085	2x Quad Core AMD Opteron™ 2384, 75W, 2.7 GHz Hyper Transport
User Interface	HTTP/Web User Console
Memory	4GB Memory, 4 x 1GB, 667MHz, Single Ranked DIMMs
Rails and Cable Management	Universal Siding Rapid/Versa Rails, Includes Cable Management Arm



Ground SATCOM

linkTEK™ Ground SATCOM	
Size	11.7" (H) x 15.7" (W) x 2.0 (D)
Weight	7.0 lbs. Total (Including Battery)
Power	10-32 VDC Input Range (1.2W nominal, 60W max)

linkTEK™ Video Viewer	
Windows Version	Windows XP - Application Size: 3 MB
Video Display Size	720 x 454 pixels
Video Management Features: • Live video • Record Live Video • Store AVI Video of Live Video Feed • Capable of Multi-vehicle Video (simultaneously, if required) • Allows for In-operation Video Configuration	

Unmanned Systems Headquarters

4240 International Parkway
Suite 100
Carrollton, TX 75007
Tel: 469-568-2376
Fax: 469-568-2100

Web: www.L-3Com.com/UAS



Unmanned Systems

L-3. Headquartered in New York City, L-3 Communications is a prime 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, subsystems and systems.

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