

LINc™ CROSS-DOMAIN SOLUTION FOR AUDIO

**LINc provides local and virtual operators with
a multi-level digital communication hub**

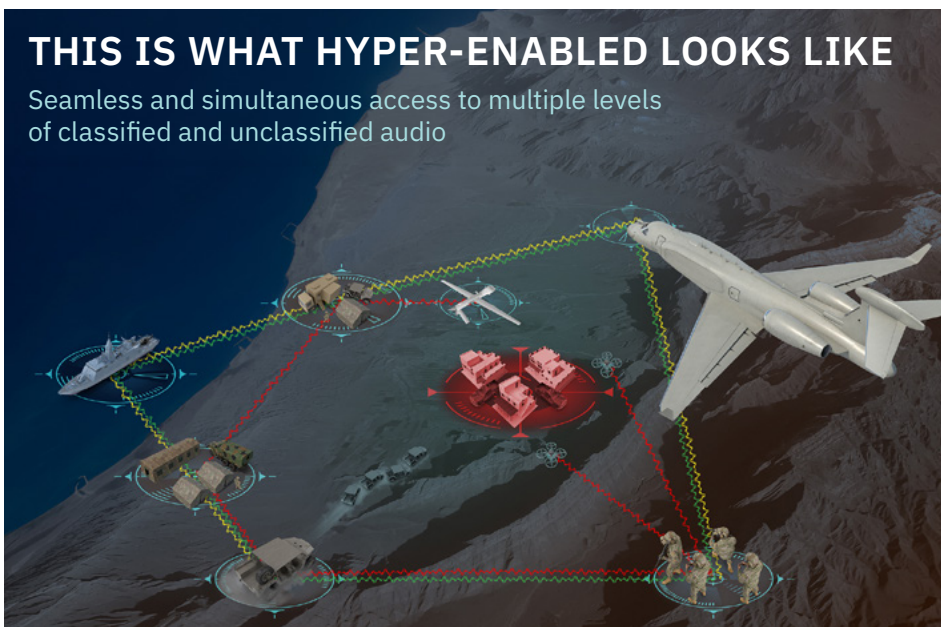
L3Harris Integrated Next-Gen Comms (LINc) is a digital intercommunication system (ICS) that provides operators with seamless and simultaneous access to multiple levels of classified and unclassified audio.

A warfighter connected to a LINc system experiences transparent usage of conferences and assets with straightforward situational awareness while the system architecture ensures robust security. The system operates with standard headsets and customized control panels. The flexible design allows for a variety of interface options at an operator's workstation, including touch screens, auxiliary or standard control panels with tactile buttons, switches-and-knobs control panels or a software application.

LINc is modular, flexible, configurable and adaptable to a variety of platforms. The distributed design scales from small ground stations to large aircraft or operations centers and provides flexibility for multiple operators, radios, mission audio channels and internal conferences. LINc supports industry-standard VoIP and network communications, analog sources (such as radios, cryptos, navigation aids, warnings, workstations, etc.) and common operator headsets. Hardware includes safety-of-flight features for flight deck use. LINc can also augment an existing ICS, extending multi-level security capability to all operators. With the LINc ATAK plug-in, tactical operators using a handheld radio can access ICS features as a virtual operator. These high-end intercom features and capabilities demanded by today's operators are provided in a high-assurance, secure product.

THIS IS WHAT HYPER-ENABLED LOOKS LIKE

Seamless and simultaneous access to multiple levels
of classified and unclassified audio



MISSION BENEFITS

- > Flexible Ethernet, Radio over Internet Protocol (RoIP) and Voice over Internet Protocol (VoIP)
- > Crewed and unmanned aircraft, ground stations and enterprise environments
- > Automated connections between independent systems
- > Integration of legacy analog equipment with modern networking architecture
- > Loaner/donor access to remote platforms' communications
- > ATAK plug-in for tactical users
- > Handheld radio integration

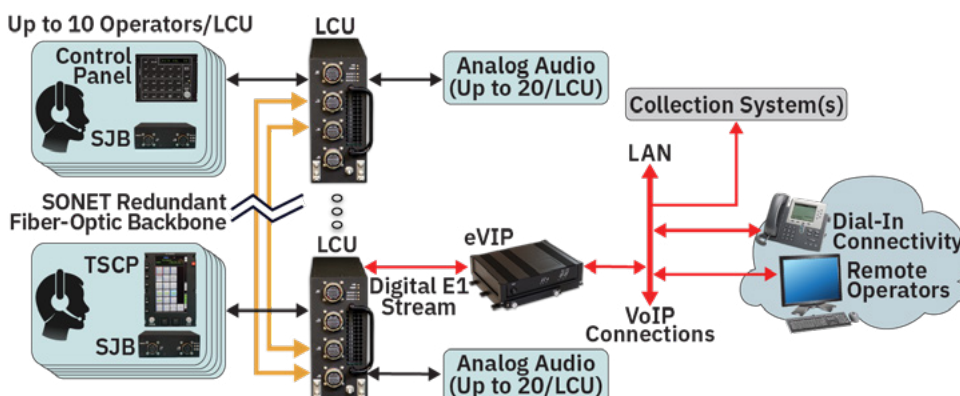
OPERATOR EXPERIENCE

- > Simultaneous monitoring of all classification levels
- > 7-position spatial audio
- > Per-channel azimuth and volume
- > Instant replay
- > Per-radio and per-conference activity indications
- > Dual push-to-talk belt station for ICS or radio
- > Configurable VOX threshold and sidetone volume
- > Supports standard headsets

LINc SYSTEM COMPONENT	BASE PART NUMBER	WEIGHT (LB)	POWER (W)
LINc Communication Unit (LCU) with tray	LCS1000	14	45
VoIP Interfacer Processor (VIP)	LCS5010	14	220 (@120 V AC)
Embedded VIP (EVIP)	LCS5030	8.0	25
Standard Control Panel (SCP)	LCS6000	1.3	16
Touch Screen Control Panel (TSCP)	LCS6200	3.5	19
Auxiliary Control Panel (ACP)	LCS6300	0.9	7
Maintenance Panel (MP)	LCS7100	1.1	-
Secure Jack Box (SJB)	LCS7600	1.8	7

LINc SYSTEM SPECIFICATION	
Operating Temperature	-40°C to +55°C
Operating Altitude	Up to 15,000 feet (unpressurized)
Power	MIL-STD-704(28 V DC), RTCA/DO-160G
EMI	MIL-STD-461G, RTCA/DO-160G
Environment	MIL-STD-810G, RTCA/DO-160G
TEMPEST	NSTISSAM TEMPEST/1-92, CNSSAM TEMPEST/1-13

LINc SYSTEM CONFIGURATION



SYSTEM FEATURES

MISSION AUDIO

- > Multi-level/enclave audio monitoring
- > Simulcast and radio relay
- > Point-to-point calling and ad-hoc conferencing
- > Recording and playback

OPERATOR CONTROL

- > Redundant operator connections
- > Dynamic permissions
- > Audio/voice alerts and cues
- > Tactile, touchscreen and workstation control
- > NVIS control panels
- > Standard headset support
- > Active Noise Reduction capable

SYSTEM ARCHITECTURE

- > Configurable discrete I/O
- > Lightweight fiber backbone
- > Built-In Test (BIT)
- > Safety-of-flight features

PLATFORM DESIGN AND INTEGRATION

- > Cyber-certified for ICD 503 and RMF per NIST SP800-37
- > Integrates with external comms management systems
- > Dzus and ATR form factors
- > MLS augmentation to existing ICS
- > Customizable control panels
- > Over 2,000 local audio channels
- > DO-178B/254 certifiable

LINc™ Cross-Domain Solution for Audio

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