

MOMENTUM™ ICS

The Momentum™ ICS provides global partners with a digital communication hub for mission-critical audio

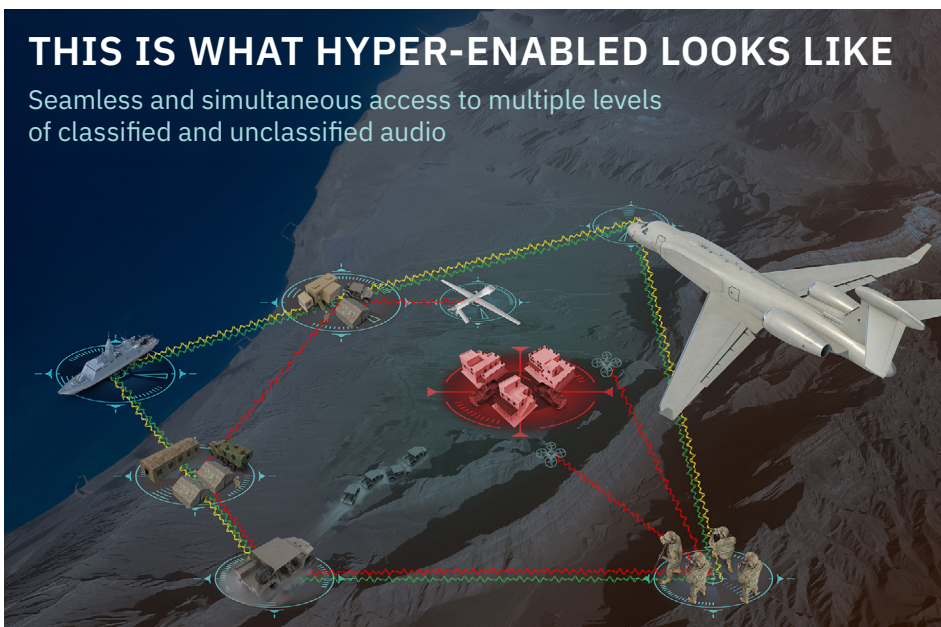
The L3Harris Momentum™ intercommunication system (ICS) is an international product that provides global partners with seamless and simultaneous access to multiple levels of classified and unclassified audio.

A warfighter connected to the Momentum™ ICS experiences transparent use of conferences and assets with straightforward situational awareness while the system architecture ensures robust security. Operators interface with the system using standard headsets and customizable control panels. The flexible control interface allows for a variety of interface options, including touch screens, auxiliary or standard control panels with tactile buttons, switches and knobs control panels, or a software application on an operator workstation.

The Momentum™ ICS is modular, flexible and configurable – adapting to a variety of platforms. The distributed design scales from small ground stations to large aircraft or operations centers and provides flexibility to add or remove operators, radios, mission audio channels and internal conferences. The Momentum™ ICS supports industry-standard VoIP and network communications, any analog sources such as radios, cryptos, navigation aids, warnings and workstations, and common operator headsets. Hardware includes safety-of-flight features for flight deck use. The Momentum™ ICS can also augment an existing ICS, providing red/black audio capability to all operators. These high-end intercom features and capabilities that platforms and operators demand are provided in a high-assurance product. Pick your platform, pick your mission; if you have red/black voice requirements, Momentum™ ICS has you covered.

THIS IS WHAT HYPER-ENABLED LOOKS LIKE

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



PRODUCT CAPABILITIES

- > Simultaneous monitoring of red/black mission audio
- > Configurable and dynamic permissions
- > Ongoing security maintenance across product baseline
- > Integrates with external comms management systems
- > Military and DoW pedigree spanning multiple decades
- > Platform configurable

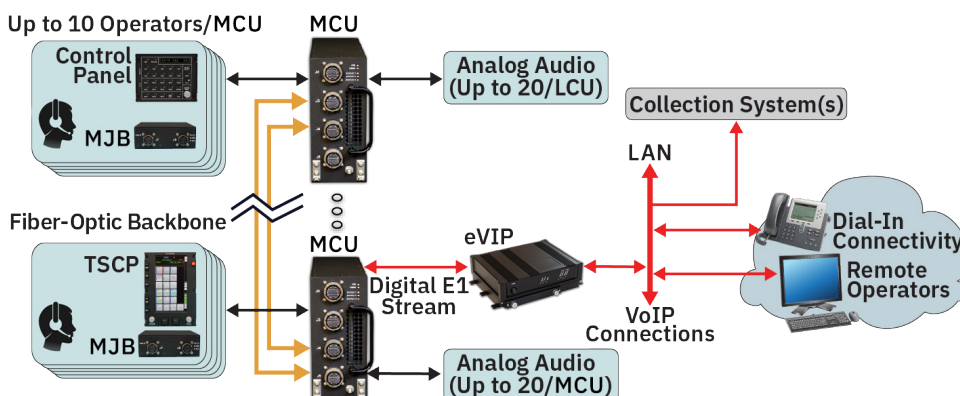
PLATFORM BENEFITS

- > Crewed and unmanned aircraft, ground stations and enterprise environments
- > Automated multi-platform connectivity
- > Integrated mission recording and playback
- > Full safety-of-flight features
- > Redundant operator connections
- > System-level Built-In Test (BIT)
- > Customized audio and voice cues for warnings and alerts
- > Simulcast and radio relay
- > High-bandwidth and low-weight fiber backbone
- > Over 2,000 independent local audio channels
- > DO-178B/254 certifiable

MOMENTUM™ SYSTEM COMPONENT	BASE PART NUMBER	WEIGHT (LB)	POWER (W)
Momentum™ Communication Unit (MCU) with Tray	MCS1000	14	45
VoIP Interface Processor (VIP)	MCS5010	14	220 (@120 V AC)
Embedded VIP (EVIP)	MCS5030	8.0	25
Standard Control Panel (SCP)	MCS6000	1.3	16
Touch Screen Control Panel (TSCP)	MCS6200	3.5	19
Auxiliary Control Panel (ACP)	MCS6300	0.9	7
Maintenance Panel (MP)	MCS7100	1.1	-
Momentum™ Jack Box (MJB)	MCS7600	1.8	7

MOMENTUM™ 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

MOMENTUM™ SYSTEM CONFIGURATION



OPERATOR FEATURES

- > Binaural (spatial) audio
- > Per-channel azimuth and volume
- > Configurable settings, including VOX threshold and sidetone
- > Point-to-point calling and ad-hoc conferencing
- > Instant replay
- > Per-radio and per-conference activity indications
- > Customizable control panels
- > NVIS control panels available
- > Dual push-to-talk beltstation for ICS or radio

INTERFACES

- > Flexible Ethernet, Radio over Internet Protocol (RoIP) and Voice over Internet Protocol (VoIP)
- > Radio, crypto, workstation audio
- > Configurable discrete behavior
- > Supports use of standard operator headsets
- > Active noise reduction capable
- > Dzus and ATR form factors
- > MLS augmentation to existing ICS

Momentum™ ICS

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