

MARITIME SHIPBOARD TERMINAL (MST)

Multi-link data link solution that meets diverse maritime missions by providing enhanced situational awareness

L3Harris has expanded our fleet-wide tested, certified and deployed CDL Hawklink system. The MST (TRL 9) is designed to support four or more simultaneous links to address the deployment of manned and unmanned Navy airborne ISR platforms. This system is ready to be deployed to U.S. and international navies and maritime law enforcement.

PRODUCT DESCRIPTION

MST system software is configurable to support Common Data Link (CDL) waveforms, BE-CDL and various other waveforms dependent on the transceiver used. It is fully compliant to Annex C and D. Network interfaces are fully compatible with the latest SAU7000 digital messaging interface.

In addition, because of the modular transceiver design, these systems are available for U.S. and international use. NSA-approved cryptography and AES encryption is available depending on customer needs.

The baseline maritime shipboard terminal features Mini-T2 transceivers with 42-inch above deck directional antenna(s) and is customizable to meet customer needs. Transceiver upgrade to CMDL 2 will be available in 2028.



MST full-size rack



Ku-band antenna



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Multi-link Data Link Solution

KEY FEATURES

- > Modular customizable design with four or more simultaneous links
- > Grade A shock-tested Above Deck Equipment (ADE)
- > Ku-Band up to 274 Mbps
- > Disseminates HD full motion video, acoustics, sensor data
- > Exportable
- > Tested to work with MH-60R and other assets

ENCRYPTION OPTIONS

- > KGV-135
- > CCM700A
- > AES 256 bits

OPERATIONAL IMPROVEMENTS

- > Multi-link to provide four or more simultaneous links
- > Ku-band to support naval and special operations missions
- > Provides greater range to support littoral missions
- > Provides C2 capabilities for UAS
- > Growth to assured communication in contested environment
- > Growth to EMCON take off and landing capabilities

POWERFUL SYSTEM

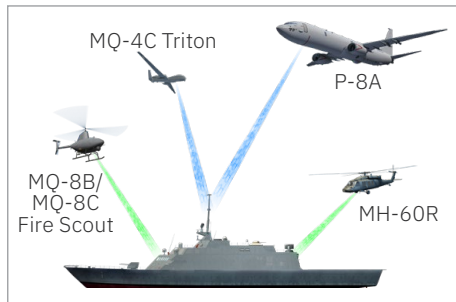
L3Harris has created a system designed to deliver the benefits of customization at the system level while maintaining the cost of standardization at the module level. At the core of the system is the Mini-T2 transceiver. The open system architecture is configurable to support multiple simultaneous links and allow growth for future transceivers.

The system's Ku-band and Omni-directional antennas are designed with U.S. Navy-certified pointing algorithms that account for various sea-state conditions.

MST is ready to interface with multiple, simultaneous ISR airborne assets, including the P-3, P-8A, MH-60R, MH-60S, MQ-4C Triton or MQ-8B/MQ-8C Fire Scout.

APPLICATIONS

L3Harris multi-link data link shipboard system expands the capabilities and flexibility of maritime missions. These data links provide secure real-time, high-speed, air-surface, bi-directional transmission of high-definition video and imagery, as well as acoustics and sensor data. Data links are also capable of Command and Control (C2) of various UAS platforms.



SWAP (SINGLE LINK, SINGLE ANTENNA CONFIGURATION)

SPECIFICATION	SIZE (H x W x D)	WEIGHT	POWER
Flight Deck Equipment			
RF Switch	4.1 x 3.5 x 2.6 in (10.4 x 8.9 x 6.6 cm)	4 lb. (1.9 kg)	N/A
Antenna	7.7 x 6.8 x 7 in (19.6 x 17.3 x 17.8 cm)	4 lb. (1.9 kg)	N/A
Below Deck Equipment			
Transceiver Drawer Assembly (TDA)	8.7 x 19 x 20 in (22.1 x 48.3 x 50.8 cm)	40 lb. (18.1 kg)	115 W
System Controller	8.7 x 19 x 20 in (22.1 x 48.3 x 50.8 cm)	40 lb. (18.1 kg)	129 W
Switch Matrix Assembly (SMA)	5.2 x 19 x 20.4 in (13.2 x 48.3 x 51.2 cm)	28 lb. (12.7 kg)	84 W
Ethernet Switch	1.8 x 19 x 18.8 in (4.6 x 48.3 x 47.8 cm)	7 lb. (3.2 kg)	10 W
Computer Drawer	3.47 x 19 x 18.8 in (8. x 48.3 x 47.8 cm)	16 lb. (7.3 kg)	11 W
Notebook Computer	1.7 x 11.7 x 10 in (4.3 x 29.8 x 25.4 cm)	5 lb. (2.3 kg)	11 W
Uninterruptable Power Supply (UPS)	5.3 x 19 x 23.5 in (13.5 x 48.3 x 59.7 cm)	107 lb. (48.5 kg)	126 W
Rack/Hardware/Cables	72 x 24 x 32 in (182.9 x 61 x 81.3 cm)	692 lb. (313.9 kg)	140 W
Above Deck Equipment (ADE)			
ADE Total	60 x 62 x 62 in (152.4 x 152.4 x 157.5 cm)	263/119.3	1000 W

PERFORMANCE

SPECIFICATION	DESCRIPTION
RF Performance Characteristics	
Ku-Band	Transmit: 15.15-15.35 GHz Receive: 14.53-14.93 GHz 5 MHz steps
Waveforms	
Standard CDL	0.2 to 274 Mbps
BE-CDL	0.2 to 45 Mbps, mode 1-16
Tactical	1.6, 3.2 6.4 Mbps
Security	
Encryption Options	> KGV-135 > CCM700A > AES 256 bits
Other	
Video	RS-170, Ethernet video stream airborne dependent
Voice	CDL audio

ENVIRONMENTAL

SPECIFICATION	BDE	LONG RANGE ADE
Humidity	0-95%	0-95%
Salt Fog	5%	5%
Transit and Storage Altitudes	0-40,000 feet	0-40,000 feet
Shock and Vibration	Designed to meet MIL-STD-810-F and MIL-STD-901-D, Grade B	Tested to meet MIL-STD-901-D, Grade A
Wind	N/A	75 knots (86 mph)
Temperature		
Operating	0°C to 50°C	-25°C to 65°C
Storage/Non-Operational Temperature	-40°C to 70°C	-40°C to 70°C

Maritime Shipboard Terminal (MST)

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