

TACTICAL RADIO FREQUENCY (RF) APPLICATIONS CHASSIS (TRAC)

C5ISR/electronic warfare modular open suite of standards (CMOSS)-compliant cyber and electronic warfare (EW) capability

Nowhere is electromagnetic advantage more important than with the warfighter, boots on the ground, on the battlefield. The L3Harris TRAC system provides cyber and EW tools for U.S. and allied militaries to achieve the advantage over any adversary.

FULL-SPECTRUM OPERATIONS

As a U.S. Army mission partner, L3Harris has developed the industry-leading, ruggedized open-architecture platform to enable spectrum survey and Cyber Electromagnetic Activities (CEMA) at the tactical edge.

The L3Harris TRAC system provides mission-optimized capability. This capability fuses the best solutions from many providers to meet a broad range of tactical capability requirements in an enduring, three-payload platform.

TRAC configurations provide full-spectrum operations delivering mission overmatch capability to the U.S. Army 915th Cyber Warfare Battalion operators.

OPEN SYSTEM ARCHITECTURE

TRAC was developed to address the Army's next-generation, RF-based offensive cyber operations (OCO) in a government-owned open approach system. This enables TRAC to support a wide range of tactical missions with an industry leading 24 RF channels, three true mission slots, reliable battery/vehicle/shore power accessories, and multiple radiohead/antenna options across industry.

L3Harris collaborates with government and industry stakeholders in evaluating and optimizing TRAC mission configurations. The TRAC technology roadmap insures an open baseline capable of scaling to future needs.



BENEFITS

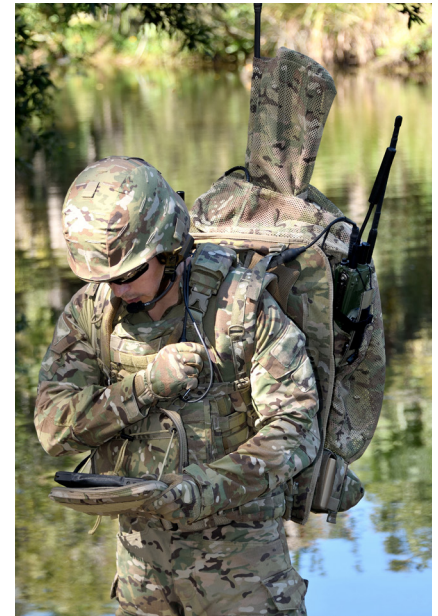
- > Solutions from industry, lab and government result in vendor-agnostic capability
- > Operator interchangeable modules and radioheads provide tailored missions
- > Common interface, training and logistics reduce lifecycle costs



TRAC has multiple power options using hot-swappable MIL-STD BB2590 batteries and worldwide auxiliary power adapters that deliver extended mission time. A tactical communications interface via AN/PRC-163 radio keeps operators securely connected and informed and is designed to modular open standards (VICTORY V1.8, MORA V2.4, VITA 65). All of this helps TRAC provide faster and broader access to advanced solutions as technology accelerates.

SPECIFICATIONS

POWER	
150 W	Passive cooling (standard)
SECURITY	
Initial release	Single level up to Secret
PHYSICAL	
Dimensions (base and radiohead)	L/W/H: 18.0 in, 10.0 in, 9.0 in
Dimensions (base only)	L/W/H: 18.0 in, 10.0 in, 6.0 in
Weight	35 lbs (3PLs, radiohead #3, and 2 batteries (typical))
ENVIRONMENTAL	
Durability	MIL-STD-810H, shock and vibration with rain/salt/dust
Temperature range	-46° C to +49° C (operational)
Immersion	30 min @ 1 m
INTERFACES	
Plug-in card (PIC) profile	MOD3-PAY-1F1U1S1S1U1U2F1H-16.6.11-9*
DCN 3317380	TRAC system interface control document
SUPPORTED PIC MODULES (including but not limited to:)	
ES/collect mission with Tx delivery	Four channel transceiver with supporting antenna
ES/collect mission	Four channel receiver with supporting antenna
Single board computer (SBC)	Multiple sources available
Cyber delivery wideband	Eight channel specialty transceiver
Commercial communications	Specialty transceiver, map/deliver
Modern signal operations	Single channel specialty transceiver, map/deliver
EW/EA mission	Four channel EA specialty transceiver
Universal software-defined radio	General purpose transceiver



Tactical RF Applications Chassis (TRAC)

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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