

## 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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