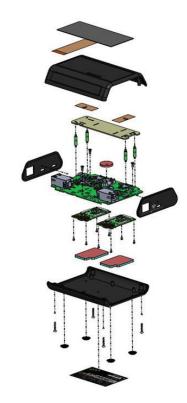
# Aegis R52L: Laptop Enhanced Retransmission Device

Low-cost, easy-to-use Enhanced Retransmission Device (ERD) that meets CSfC Mobile Access Capability Package (MACP) requirements for connecting End User Devices (EUDs) to untrusted networks

Connecting to untrusted (black) networks is a requirement for most EUDs, but these networks are inherently risky. By placing an ERD between the EUD and the untrusted network, devices and data can be better protected.

## **Observations**

- Incorporate lessons learned and user feedback from Cog Systems' Aegis R51 product
- Use of software on a module concept to create hardware isolation (Cog Systems' Solitaire prototype)
- Aegis R52L proof-of-concept hardware (10 units built)
- Initial ERD software flashed and end-to-end data transfer





2025 Aegis R52L proof-of-concept construction



### **Key Features**

Two chipset approach to provide enhanced hardware isolation between WAN (network and ERD) and LAN (ERD and EUD)

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Aegis R52L - Top View

The Aegis R52L is the next step in the evolution of the Aegis Enhanced Retransmission Device (ERD) product line. The R52L is a laptop-centric ERD with multiple methods of connecting End User Devices (EUD) to untrusted networks (WiFi, ethernet, USB).

# **Next Steps**

- · Further hardening of ERD software
- · Over-the-air device management
- Onboard VPN



Aegis R52L - Wide Area Network Side View



#### **Critical Tech Areas**

























### **DoD 17 Priorities**



- 1. Southwest Border Activities
- 2. Combating Transnational Criminal Organizations in the Western Hemisphere
- 3. Audit
- 4. Nuclear Modernization (including NC3
- 5. Collaborative Combat Aircraft (CCAs)
- 6. Virginia-class Submarines
- 7. Executable Surface Ships
- 8 Homeland Missile Defens
- 9 One-Way Attack/Autonomous System
- 10. Counter-small UAS Initiatives
- 11. Priority Critical Cybersecurity
- 12. Munitions
- 13. Core Readiness, including full DRT fundin
- 14. Munitions and Energetics Organic Industrial Bases
- 15. Executable INDOPACOM MILCON
- 16. Combatant Command support agency funding for INDOPACOM, NORTHCOM SPACECOM, STRATCOM, CYBERCOM, and TRANSCOM
- 17. Medical Private-Sector Care