

RANGERLINK™ series from Amphenol

Integrated Multi-Interface Soldier borne Data and Power Hubs



Modern soldier systems rely on a growing number of electronic devices, including computing platforms, communication systems, navigation units, power systems, and sensors. Managing these devices individually increases cable complexity, integration challenges, and the risk of connection failures.

The Advanced Soldier Hub from Amphenol's **RANGERLINK™** addresses this challenge by providing a **single, unified platform for distributing USB, Ethernet, and Power**, enabling streamlined integration and dependable connectivity across all soldier-worn equipment. Light weight and highly customizable mechanically and comes with a variety of Amphenol connector options, cable solutions and SPIN TACT Neo™ solutions. Needless to mention, multiple finishes and color options.

Integrated Multi-Interface Capability

RANGERLINK™ supports simultaneous connectivity for multiple device types through consolidated interfaces:

- **USB** for end-user devices, peripherals, and mission equipment (*up to 40 Gbps USB 4 version 1.0*).
- **Ethernet** for high-speed data and networked communication systems (*up to 10GBase-T*).
- **Power distribution** for reliable operation of connected electronics.

This unified architecture reduces the number of individual cables and connectors required, improving system organization and ease of use in the field.

Ruggedized for Operational Environments

Designed specifically for soldier-worn deployment, the hub is constructed to withstand harsh environmental conditions including:

- Mechanical shock and vibration
- Dust, moisture, and field contamination
- Repeated connection cycles and sustained use
- Secure connector retention and sealed interface design ensure that connections remain stable even during high-mobility operations.

Compact and Custom Soldier-Centric Designs

The RANGERLINK™ low-profile form factor allows flexible placement on vests, belts, or load-bearing equipment, supporting ergonomic integration without restricting mobility. Its compact footprint and lightweight construction help minimize additional load while maintaining accessibility for device connections. Custom designs can be made to each end use applications in-terms of mechanical dimensions, weight, largest variety of Amphenol connector options, body finish/color, mounting methods, customized cabling, SPIN TACT Neo™ to avoid snag and improve overall system manageability in dynamic operational scenarios.

Simplified Integration

The Advanced Soldier Hub is designed for rapid integration into existing soldier systems and platforms. Its consolidated architecture reduces installation complexity and allows multiple subsystems to be connected through a single interface point, enabling cleaner system layouts and easier maintenance.

Key Features

Integrated USB, Ethernet, and power distribution in one unit.

Stable multi-device power delivery with optimized internal routing.

High-integrity data pathways for reliable communication and sensor connectivity.

Rugged construction for demanding military environments.

Compact, lightweight, and suitable for body-mounted deployment.

Streamlined cable management with multiple Amphenol connector options and SPIN TACT Neo™ simplified system integration.



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