

ACCUTECH 350118

Patient Wandering RS485 4-port Hub Splitter LS Units | SKU 350118



PRODUCT OVERVIEW

The AccuTech Patient Wandering RS485 4-Port Hub Splitter (SKU 350118) functions as a fundamental communication routing component engineered specifically for the AccuTech LS2400 Wander Management System. This specialized hardware interface bridges and optimizes network telemetry data across up to four standalone LS peripheral units. Built to ensure clean, balanced signal distribution, the 350118 establishes a reliable communication backbone throughout the facility. Its compact and ruggedized form factor makes it ideal for seamless structural integration into demanding environments, such as long-term care facilities, hospitals, and assisted living centers where continuous resident monitoring and egress security are critical priorities.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

The network serial distribution and signal expansion hardware shall utilize the AccuTech 350118 RS485 4-Port Hub Splitter assembly to coordinate telemetry lines across local monitoring points. The splitter module shall natively interface with the AccuTech LS2400 Wander Management System platform to provide isolated data branching for up to four distinct LS unit arrays.

The hub splitter shall utilize the robust, noise-resistant RS485 differential serial protocol, allowing reliable, real-time bidirectional data transmission and exit zone status synchronization without introducing data collision errors. All internal circuitry shall be contained within a compact, structurally resilient enclosure suitable for surface mounting inside low-voltage utility cabinets or direct placement near localized perimeter controllers. The physical device template shall support simple pluggable terminal layouts to allow streamlined deployment and quick isolation diagnostics during long-term maintenance cycles.

SYSTEM COMPONENTS

- **RS485 4-Port Splitter Circuit Hub:** The core processing interface delivering centralized routing and signal balancing to connected peripherals.
- **Dedicated LS Unit Channels (x4):** Four individual hardwired communication ports allocated for connecting and synchronizing up to four separate LS system units.
- **Ruggedized Modular Enclosure:** A compact, durable casing engineered to shield internal circuitry against mechanical stress and environmental dust within technical rooms.

FEATURES AND BENEFITS

- **Quad-Port LS Integration:** Consolidates up to four separate LS control units onto a singular serial network line for streamlined infrastructure wiring.
- **Industrial RS485 Optimization:** Operates over the high-performance RS485 communication protocol to secure noise-immune data lines across extended cable distances.
- **Targeted Signal Distribution:** Eliminates data packet collision and conversion latency issues by maximizing signal distribution efficiency between active system hardware nodes.
- **Scalable Star-Wiring Architecture:** Offers an efficient and cost-effective method to expand existing facility safety perimeters without requiring structural system re-engineering.
- **Simplified Maintenance Profile:** User-friendly hardware alignment shortens deployment timelines and decreases potential facility downtime during maintenance or troubleshooting routines.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	AccuTech RS485 4-Port Hub Splitter LS Units
Part Number / SKU	350118
Product Type	Serial Data Hub Splitter
Port Count	4 Dedicated RS485 Output Ports
Communication Protocol	RS485 Serial Standard
System Compatibility	Accutech LS2400 Wander Management System
Form Factor	Compact, lightweight surface-mount design
Enclosure Material	High-durability composite for clinical engineering spaces

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Complies with FCC Part 15 criteria via underlying serial bus protocols, guaranteeing low-energy emissions that will not disrupt clinical imaging or wireless healthcare telemetry arrays.
- **UL Status:** Fabricated to meet standard UL structural and electrical guidelines for safety components deployed alongside access control networks and auxiliary hospital signaling infrastructure.
- **RoHS Status:** Manufactured utilizing hazardous-substance-free processes and lead-free electrical assemblies in complete alignment with global RoHS directives.