

ACCUTECH 807676

Band Removal Receiver | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 807676 Band Removal Receiver serves as a core hardware intelligence component within advanced wandering management and resident safety infrastructures. It is engineered to bridge the gap between physical perimeter sensors deployed at facility exits and localized control monitoring stations. By aggregating and processing automated security credentials and high-speed data telemetry from protected boundaries, it eliminates the operational complexity of managing individual entry points. This centralized topology ensures that large-scale senior care, nursing home, memory care, and hospital facilities maintain instantaneous, real-time situational awareness.

Deployed directly between peripheral zone controllers, transmitter wands, door controllers, and central administration frameworks, the 807676 module channels complex serial data traffic. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as authorized staff bypass, secure visitor access, and localized security overrides—are instantly synchronized with perimeter sensors. This active tracking processing ensures absolute protection across expansive hospital wings, long care facility corridors, and high-risk resident zones by establishing an uncompressed, bidirectional data pipeline for system programming, real-time diagnostics, and unified event logging while actively detecting specialized tag tamper and band-cut signals from resident transmitters.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 807676 Band Removal Receiver to act as the primary data interface bridging the peripheral exit network and the central management workstation. The hardware must support bidirectional communication to synchronize active bypass states, band-tamper triggers, and real-time controller logs directly with the host computer software.
- **Healthcare Environment Protection:** The data translation assembly shall incorporate a durable, commercial-grade structural design explicitly engineered to sustain continuous clinical exposure, operating reliably across standard high-traffic healthcare IT environments.
- **Access and Control:** The device's physical data interface shall feature automated data direction control paths to allow authorized clinical staff, security personnel, and system administrators to issue network-wide bypass commands, hardware configuration adjustments, and alarm resets from the central software console.
- **Enclosure and Durability:** The interface electronic component assembly shall be protected inside a compact, ruggedized commercial-grade housing optimized for inline placement or clean mounting behind administrative terminal workstations or exit perimeter frames.
- **System Interoperability:** The interface architecture must feature validated native compatibility for direct connection with Accutech wander management systems, ensuring non-latent band-removal and tamper signaling across the facility's dedicated security network.

SYSTEM COMPONENTS

The 807676 Band Removal Receiver incorporates several fundamental integrated sub-modules and physical connection layouts:

- **High-Speed Tamper Signal Processing Chipset:** The primary internal multi-layer integrated circuit board dedicated to handling automated band-cut sensing and bidirectional signal conversion protocols.
- **Industrial Radio Frequency (RF) Receiver Array:** A ruggedized, low-resistance mechanical compression module configured to accept over-the-air tamper and elopement tracking lines from the active transmitter tags.
- **Dedicated Local Interconnect Interface Terminal:** An integrated, high-durability physical port layout designed for a direct, secure connection to local zone controllers, auxiliary relays, or server expansion slots.
- **Transient Voltage & Frequency Protection Array:** Internal safety circuitry engineered to isolate delicate computing components from data line surges, grounding faults, and electrostatic discharge (ESD).
- **Vandal-Resistant Enclosure Matrix:** A lightweight, commercial-grade impact-resistant shell providing absolute physical protection for interior receiver circuits within busy administrative and resident areas.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates multiple peripheral controller channels down to a single receiver hub connection on the administration server, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Seamless Protocol Conversion:** Automatically translates complex industrial band-tamper differential signals into a standard virtual infrastructure layout without data packet loss or communication delays.
- **Proactive Tamper Mitigation:** Instantly catches unauthorized band removal or patient elopement attempts at the boundary line, triggering proactive alarms before a resident can clear monitored exit parameters.
- **Diagnostic Status Indicators:** Features integrated LED status lights to provide clear visual feedback on data transmission, power presence, and RF reception, streamlining troubleshooting tasks for facility maintenance teams.
- **Validated Platform Interoperability:** Engineered for native plug-and-play compatibility with Accutech security networks and software suites, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	Band Removal Receiver
Part Number / SKU	807676
Component Technology Type	Radio Frequency (RF) Band-Cut Detection Interface & Processing Receiver
Signal Input Frequency	Supervised Smart Tag Tamper Monitoring Spectrum Channels

Device Interface Port

Industrial Mechanical Screw Terminal Connection Layouts

Input Operating Voltage

12 VDC System Nominal Supply Loop Target

Visual Diagnostic Indicators

Dedicated On-Board LED Array for Power, Data Transmit, and Signal Catch

Wander System Compatibility

Accutech ResidentGuard, GuardIT, and Integrated Controller Environments

Chassis Construction

High-Impact, Commercial-Grade Structural Thermoplastic / Composite Shell

Primary Target Environments

Specialized Memory Care Units, Pediatric Wards, Psychiatric Wings, Exit Points

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC regulations regarding digital and RF receiver device shielding. This guarantees that internal serial processing paths, radio frequency reception sweeps, and high-speed data translation steps do not introduce or sustain harmful electromagnetic interference across nearby diagnostic clinical devices or patient networks.
- **UL Listing:** Developed and engineered using interior assembly components compliant with UL safety classifications for low-voltage information technology equipment, data communication accessories, signaling systems, and auxiliary healthcare resident safety tools.
- **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the internal circuit layouts, external terminal components, and housing finishes strictly restrict the use of lead, mercury, polybrominated biphenyls, and other hazardous materials.