

ACCUTECH 700038

Relay Board (BR Lockdown) | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 700038 Relay Board (BR Lockdown) 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 700038 module channels complex serial data traffic. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as global building lockdowns, 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 providing the mechanical relay drive needed to initiate full-facility containment sequences during critical elopement or security breach events.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 700038 Relay Board (BR Lockdown) to act as the primary data and emergency containment interface bridging the peripheral exit network and the central management workstation. The hardware must support bidirectional communication to synchronize active bypass states, lockdown commands, 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, facility lockdown parameters, 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 inside main distribution enclosures or central server racks.
- **System Interoperability:** The interface architecture must feature validated native compatibility for direct connection with Accutech wander management systems and peripheral magnetic locks, ensuring non-latent containment and lockdown signaling across the facility's dedicated security network.

SYSTEM COMPONENTS

The 700038 Relay Board (BR Lockdown) incorporates several fundamental integrated sub-modules and physical connection layouts:

- **High-Speed Isolation Relay Processing Chipset:** The primary internal multi-layer integrated circuit board dedicated to handling automated command sensing and bidirectional lockdown conversion protocols.
- **Industrial Heavy-Duty Relay Screw Terminal Block:** A ruggedized, low-resistance mechanical compression terminal interface configured to accept hardwired containment loops and power lines from the door controller network.
- **Dedicated Lockdown Trigger Interface Connector:** An integrated, high-durability physical port layout designed for a direct, secure connection to local emergency push buttons, auxiliary security alarms, or server expansion slots.
- **Transient Voltage 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 electronic circuits within busy administrative and mechanical workspaces.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates multiple peripheral controller channels down to a single master lockdown relay connection on the administration server, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Seamless Protocol Conversion:** Automatically translates complex electrical emergency triggers into unified building-wide or zone-specific perimeter containment states without data packet loss or communication delays.
- **Instantaneous Facility Containment:** Provides a dedicated hardware bridge to secure all connected monitored boundaries simultaneously during an active resident elopement risk or facility emergency sequence.
- **Diagnostic Status Indicators:** Features integrated LED status lights to provide clear visual feedback on data transmission, power presence, and relay active states, 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	Relay Board (BR Lockdown)
Part Number / SKU	700038
Component Technology Type	Bidirectional Multi-Point Lockdown Relay Interface Board
Interface Port Layout	Heavy-Duty Industrial Mechanical Screw Terminals

Relay Contact Ratings

Form C Standard Low-Voltage Signaling Relays

Operational Trigger Input

Dry Contact Relay Input / Supervised Logic Commands

Operating Input Voltage

12 VDC System Nominal Supply Loop

Visual Diagnostic Indicators

Dedicated On-Board LED Array for Power and Relay State Verification

Wander System Compatibility

Accutech ResidentGuard, LC Series, and Access Control Environments

Chassis Construction

High-Impact, Commercial-Grade Structural Housing / Compact Shell Matrix

Primary Target Environments

Central IT Server Closets, Nurses' Stations, Main Security Command Hubs

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC regulations regarding digital device shielding. This guarantees that internal serial processing paths, relay contact switching, 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, emergency locking arrangements, 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.