

ACCUTECH 700230

3101 Lock Board | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 700230 3101 Lock Board 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 700230 module channels complex serial data traffic. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as automated door locking, 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 managing specialized signaling for the 3101 series lock control systems.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 700230 3101 Lock Board to act as the primary data and perimeter lock controller interface bridging the peripheral exit network and the central management workstation. The hardware must support bidirectional communication to synchronize active bypass states, locking statuses, and real-time controller logs directly with the host computer software.
- **Healthcare Environment Protection:** The lock control processing 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, lock timing parameters, 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 exit door frames, power supply cabinets, or central server racks.
- **System Interoperability:** The lock board architecture must feature validated native compatibility for direct connection with Accutech 3101 systems and peripheral magnetic locks, ensuring non-latent physical locking and unlock signaling across the facility's dedicated security network.

SYSTEM COMPONENTS

The 700230 3101 Lock Board incorporates several fundamental integrated sub-modules and physical connection layouts:

- **High-Speed Lock Control Microprocessor Core:** The primary internal multi-layer integrated circuit board dedicated to handling automated locking logic, timing cycles, and bidirectional data conversion protocols.
- **Industrial Lock Relay and Power Terminal Block:** A ruggedized, low-resistance mechanical compression terminal interface configured to accept hardwired locking communication and power feed lines from the door controller network.
- **Dedicated Peripheral Interconnect Interface Port:** An integrated, high-durability physical port layout designed for a direct, secure connection to local door zone controllers, auxiliary alarm inputs, or server expansion slots.
- **Transient Voltage & Power Surge Isolation Array:** Internal safety circuitry engineered to isolate delicate computing components from data line surges, grounding faults, and inductive kickback from magnetic locks or strikes.
- **Vandal-Resistant Enclosure Matrix:** A lightweight, commercial-grade impact-resistant shell or protective chassis array providing absolute physical security for interior circuits within active facility wall cavities or equipment boxes.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates multiple peripheral controller channels and lock triggers down to a single interface board connection on the administration server, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Seamless Protocol Conversion:** Automatically translates complex electronic security command vectors into instant mechanical or magnetic lock states without data packet loss or communication delays.
- **Dedicated Lock State Routing:** Directs specialized low-voltage signals optimized for the 3101 series wander management parameters, allowing precise control over magnetic hold-open and emergency release cycles.
- **Diagnostic Status Indicators:** Features integrated board-level LED status lights to provide clear visual feedback on data transmission, lock 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	3101 Lock Board Component
Part Number / SKU	700230
Component Technology Type	Bidirectional Intelligent Perimeter Lock Control Board & Interface Module

Interface Port Layout

Heavy-Duty Industrial Mechanical Screw Terminals

Relay Contact Integration

Dedicated Lock Control Output Relays

Operational Control Architecture

Microprocessor-Driven Timing and Status Output Signaling

Operating Input Voltage

12 VDC System Nominal Supply Loop

Visual Diagnostic Indicators

On-Board LED Array for Power Input, Data Flow, and Active Lock Verification

Wander System Compatibility

Accutech ResidentGuard, 3101 Series, and Integrated System Environments

Chassis Construction

High-Impact, Commercial-Grade Structural Housing / Compact Internal Assembly Layout

Primary Target Environments

Door Header Boxes, Power Distribution Enclosures, IT Closets, Security Control Centers

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC regulations regarding digital device shielding. This guarantees that internal motor microprocessors, switching pathways, 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 access control locking mechanisms, information technology equipment, 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.