

ACCUTECH 660076

Internal ES Antenna w/plate | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 660076 Internal ES Antenna w/plate 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 660076 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 projecting localized radio frequency fields to detect active resident tags near egress boundaries.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 660076 Internal ES Antenna w/plate 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 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 flush against administrative walls or junction boxes behind a stylized faceplate.
- **System Interoperability:** The interface architecture must feature validated native compatibility for direct connection with Accutech wander management systems, ensuring non-latent signaling across the facility's dedicated security network.

SYSTEM COMPONENTS

The 660076 Internal ES Antenna w/plate incorporates several fundamental integrated sub-modules and physical connection layouts:

- **High-Precision Internal Antenna Field Array:** The primary internal multi-layer integrated circuit board dedicated to handling automated frequency sensing and bidirectional signal reception protocols.
- **Low-Attenuation Coaxial/Terminal Interconnect Interface:** A ruggedized, low-resistance mechanical compression interface configured to accept hardwired communication lines from the door controller network.
- **Commercial-Grade Flush Mounting Plate:** An integrated, high-durability physical port layout designed for a direct, secure connection to standard single or double-gang electrical wall boxes.
- **Transient Voltage & Frequency Isolation 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 antenna loops within busy administrative and clinical corridors.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates multiple peripheral controller channels down to a single physical antenna hub connection on the administration server, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Seamless Protocol Conversion:** Automatically translates complex industrial radio frequency fields into a standard virtual infrastructure layout without data packet loss or communication delays.
- **Low-Profile Aesthetic Integration:** Mounts neatly into standard wall configurations with an included decorative finish plate, eliminating hardware clutter and preserving interior facility aesthetics.
- **Diagnostic Status Indicators:** Features optimized localized circuitry to provide clear diagnostic feedback on signal coverage and loop connectivity, 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	Internal ES Antenna w/plate
Part Number / SKU	660076
Component Technology Type	Radio Frequency (RF) Signal Detection Antenna & Controller Interface
Mounting Plate Configuration	Flush-Mount Single/Double-Gang Style Wall Plate Assembly

Device Interface Port	Low-Resistance Mechanical Screw Terminal Interconnect Blocks
Signal Reception Range	Optimized for Proximity Zone Boundary Interception
Power Requirements	Provided Directly via the Primary System Controller Loop Connection
Wander System Compatibility	Accutech ResidentGuard, ES platforms, and Central Infrastructure Hardware
Chassis Construction	High-Impact, Commercial-Grade Structural Thermoplastic / Finished Metal Plate
Primary Target Environments	Corridors, Entry/Exit Door Frames, Elevator Lobbies, Restricted Healthcare Zones

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC regulations regarding digital and intentional radiator device shielding. This guarantees that internal serial processing paths, frequency detection loops, 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, signaling appliances, 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.