

ACCUTECH 650120

Wander Management System Computer | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 650120 Wander Management System Computer 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 650120 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 acting as the primary host processing engine for the facility's resident safety software suite.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 650120 Wander Management System Computer to act as the primary central management workstation and data interface bridging the peripheral exit network and the localized security sub-stations. The hardware must support bidirectional communication to synchronize active bypass states, exit alarms, and real-time controller logs directly with the host administration software.
- **Healthcare Environment Protection:** The centralized computing 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 server-grade computing component assembly shall be protected inside a compact, ruggedized commercial-grade housing optimized for tabletop placement at nurses' stations or clean mounting inside main IT distribution enclosures or central server racks.
- **System Interoperability:** The workstation architecture must feature validated native compatibility for direct connection with Accutech wander management systems, ensuring non-latent containment signaling and immediate event processing across the facility's dedicated security network.

SYSTEM COMPONENTS

The 650120 Wander Management System Computer incorporates several fundamental integrated sub-modules and physical connection layouts:

- **High-Speed Central Processing Unit & Core Chipset:** The primary internal multi-layer integrated circuit board and processor dedicated to handling high-volume event logging, database management, and bidirectional network conversion protocols.
- **Industrial Network Interface Controller (NIC) Bus:** A ruggedized, low-resistance mechanical communication interface configured to accept hardwired lines and serial telemetry feeds from the door controller network.
- **Dedicated Data Port Expansion Layout:** An integrated, high-durability physical port layout designed for a direct, secure connection to programming dongles, local touchscreens, or peripheral network switches.
- **Transient Voltage & Solid-State Storage Isolation Array:** Internal protection circuitry and stable memory modules engineered to isolate delicate computing nodes from data line surges, power faults, and electrostatic discharge (ESD).
- **Vandal-Resistant Enclosure Matrix:** A lightweight, commercial-grade impact-resistant chassis providing absolute physical protection for interior circuits within busy administrative and clinical work zones.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates multiple peripheral controller channels and distributed exit logs down to a single master administration workstation, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Seamless Protocol Conversion:** Automatically translates complex electronic security metrics and tag telemetry into standard virtual infrastructure layouts and clear graphical maps without data packet loss or communication delays.
- **Real-Time Event Reporting:** Provides an active processing hub that immediately displays resident elopement risks, door status alerts, and hardware faults to administrative personnel.
- **Diagnostic Status Indicators:** Features integrated system diagnostic software tools and visual indicators to provide clear feedback on data transmission, network connectivity, and hardware health, streamlining troubleshooting tasks for facility maintenance teams.
- **Validated Platform Interoperability:** Engineered for native plug-and-play compatibility with Accutech security networks, software suites, and initialization components, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	Wander Management System Computer
Part Number / SKU	650120

Component Technology Type	Central System Workstation, Database Processor & Network Data Interface Hub
Network Interface Port Layout	Integrated RJ-45 LAN Connection & Serial Comm Communication Bus
Data Storage Medium	High-Reliability Solid-State Storage Drive Array for Extended Event Logging
Operating Input Voltage	Standard AC Power Supply Input Loop (120 VAC Target)
Visual Diagnostic Indicators	Monitor Interface Status Screens and On-Board Hardware Activity LED Lights
Wander System Compatibility	Accutech ResidentGuard, ES platforms, LS platforms, and Central System Architectures
Chassis Enclosure Construction	High-Impact, Commercial-Grade Structural Housing / Compact Desktop Configuration
Primary Target Environments	Central Nurses' Stations, IT Closets, Main Security Command Hubs

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.