

ACCUTECH ACT-STRAP

Accutech ACT-STRAP Access Card Strap



PRODUCT OVERVIEW

The Accutech ACT-STRAP Access Card Strap is a specialized, high-durability attachment component designed to interface directly with Accutech's wander management and electronic access control tags (such as ResidentGuard wrist and ankle tags). Engineered for sensitive healthcare, memory care, and behavioral health settings, the ACT-STRAP provides secure, direct physical contact between the device and the patient's skin to ensure seamless RF signal transmission. Its unique design guarantees a perfect, slip-free fit that eliminates the risk of tags falling off or sliding, while actively prioritizing patient comfort and skin integrity.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

The Accutech ACT-STRAP Access Card Strap, manufactured by Accutech Healthcare Security Solutions, is a secure attachment component engineered specifically to integrate with Accutech wander management, infant protection, and electronic access control tags. Designed to ensure dedicated spatial security and operational continuity within memory care, assisted living, and clinical environments, the strap is constructed from a high-tensile, ultra-soft, hypoallergenic polymer blend that resists structural stretching, snapping, or cracking under physiological strain. To support strict infection control and hygiene protocols, the material is completely non-porous, moisture-proof, and capable of regular sanitization with clinical-grade surface disinfectants without degrading. Furthermore, its mechanical fastening profile features a specialized contour design that provides a custom, adjustable, and slip-resistant fit on a patient's wrist or ankle, preventing loose rotation or displacement. This maintains a continuous, non-chafing interface with the epidermis to optimize stable RF beacon and signal transmission between the tag and the receiver network, while its layout as a swappable, replaceable utility accessory actively prevents multi-patient cross-contamination.

SYSTEM COMPONENTS

- **Accutech Wearable Tags:** Directly connects to slotted and waterproof wrist/ankle tracking tags (including the 77S018-W, 77E018, 77L018-W, and ResidentGuard Wander Wearables).
- **Fixation and Fastener Hub:** Integrated dual-slot locking interfaces embedded on the tag body to receive the strap anchor points.

Wander Management Perimeter Network: Interfaces indirectly with Accutech ID-TAD (ID-Tag Activators/Deactivators), Tag Test Stations (700020B), and local controller panels to ensure tag placement is persistently checked.

FEATURES AND BENEFITS

- **Hypoallergenic Composition:** Formulated from skin-safe materials that prevent dermatological irritation, redness, and allergic chafing during prolonged patient contact.
- **Moisture-Proof & Non-Absorbent:** Repels water, sweat, and bodily fluids, allowing residents to shower or be bathed without requiring tag removal or compromising structural hygiene.
- **Slip-Resistant Perfect Fit:** Special contoured tracking limits sliding and completely eliminates accidental drop-offs, reducing false "loose band" or missing tag events.
- **High Tensile Strength:** Built with high-grade components that prevent accidental stretching or snapping from pulling or everyday wear.
- **Streamlined Cross-Infection Control:** Easily replaceable layout allows clinical staff to quickly swap out soiled straps for new ones, maintaining a sanitary patient care environment.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	ACT-STRAP
Primary Material	Medical-grade, ultra-soft hypoallergenic polymer
Application Type	Wrist or Ankle deployment
Fluid Resistance	100% Waterproof and Moisture-Proof
Elongation Resistance	Anti-stretch, high-tensile mechanical profile
Biocompatibility	Non-toxic, skin-safe for continuous continuous deployment
Compatibility	Accutech ResidentGuard, LC/ES/IS series monitoring tags
Maintenance	Single-patient use / Replaceable utility component

COMPLIANCE AND CERTIFICATION

- **RoHS Status:** Fully compliant with the Restriction of Hazardous Substances (RoHS) directive, guaranteeing that the strap materials are entirely free of lead, mercury, cadmium, and hexavalent chromium.
- **Biocompatibility Standard:** Meets clinical standards for non-irritant, hypoallergenic contact with compromised or sensitive skin types.
- **System-Level Approvals:** Engineered to function seamlessly within networks matching FCC Part 15 (RF Emission protocols) and UL 294 / UL 1069 (Access Control Systems and Hospital Signaling Equipment) standards without disrupting terminal signal calibrations.