

RFID Asset Tracking System Buying Guide

Choose tags, readers and workflows for reliable asset visibility

Designed for

Enterprise IT, healthcare, facilities, manufacturing, education and multi-site operations.

ERGO Hong Kong

Practical procurement guidance for professional workplaces, education, healthcare and enterprise environments.

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How to Use This Guide

RFID can reduce manual scanning and accelerate audits, but performance depends on tag selection, reader architecture, asset material, read zones and software design. A successful project begins with a controlled pilot using representative assets and locations.

Quick Procurement Checklist

1	Define whether the goal is audit, movement detection, cabinet inventory or real-time location.
2	List asset materials, dimensions and operating environment.
3	Choose suitable UHF, HF/NFC or metal-mount tags.
4	Select handheld, fixed, portal or cabinet readers.
5	Pilot read accuracy and define exception handling before scale-up.

1. RFID System Components

RFID tag	Unique asset identity	Material, size, durability and read range
Handheld reader	Rapid audits and searching	Ergonomics, battery and software
Fixed reader/portal	Movement detection	Read-zone control and shielding
RFID cabinet	Automatic presence inside storage	Antenna placement and isolation
Management software	Asset records, alerts and reports	Integration and data quality

2. Choose the Right Use Case

Mobile asset audit

Best for periodic verification across rooms or sites. A handheld reader can identify many tagged assets without direct line-of-sight.

Cabinet inventory

Useful when assets are stored in a controlled zone and the system must detect additions or removals.

Movement tracking

Fixed readers can record passage through a doorway or zone, but require careful tuning to avoid unintended reads.

3. Tagging Considerations

4. Pilot Tip

Test worst-case assets, dense shelves and busy doorways. Marketing read-range claims do not replace an on-site pilot with the actual equipment.

Relevant ERGO Hong Kong Pages

Use these links to compare available solutions and discuss the correct configuration with our team.

RFID Asset Tracking Systems Enterprise RFID tracking solution page.	View online
Mobile RFID Asset Audit System Handheld rapid asset auditing.	View online
RFID & AI Vision Asset Tracking Combined tracking solution overview.	View online
RFID Medical Inventory Cabinet RFID-enabled medical storage and inventory control.	View online

Need a recommendation?

Share the device size, weight, quantity, installation environment and any special workflow requirements. ERGO Hong Kong can recommend a standard model or discuss a customized configuration.

[Contact ERGO Hong Kong](#)

Important Note

This guide is intended for preliminary product selection. Final suitability depends on exact dimensions, load, VESA pattern, device power requirements, site conditions, user workflow and compliance requirements. Product specifications and availability may change; confirm final details before ordering.