04 / BOX-LEVEL RFID VERIFICATION

Xinhuotong PDA Receiving

Scan the box QR code or barcode to retrieve its complete expected EPC list. Read the physical goods with the PDA and compare each item to support receiving, unpacking checks and returns verification.

Box verification workflow



> Xinhuotong brand illustration based on C6100 documentation · APP screen illustrates the workflow

Every EPC recorded during packing becomes a reference for receiving checks.

During item-by-item packing, the supplier links each box code to its full EPC list. The receiver scans the box code with a PDA to retrieve the expected item list, then reads the box in an area with relatively few nearby tags and little interference. The software compares full EPC sets, checking for wrong items even when the totals match.

01

One box code carries the complete manifest forward

The QR code or barcode locates the box manifest. Retrieve its complete EPC list and version with the required authorisation, without asking the operator to scan every item again.

02

Handheld workflows for smaller spaces

Small warehouses and stores can start with one RFID PDA, without first building a dedicated fixed tunnel or a bulky bulk-read cabinet. Choose the capture method to suit the actual workload.

03

Check each item and retain discrepancies

Distinguish manifest tags read, expected tags not read and tags read outside the manifest. Retain unknown tags and duplicate reports, then confirm discrepancies through rescanning and operator review.

WORKFLOW & DELIVERY

Workflow and delivery conditions

01

Scan box code for manifest

Scan the outer box QR code or barcode to retrieve its box code, version and complete expected EPC list.

02

Choose an area and read tags

Separate the current box from neighbouring boxes and other RFID goods, then read it using the handheld PDA.

03

Compare each item and review

Deduplicate full EPCs and compare them with the manifest. Missing reads, extra reads and unknown tags require rescanning and review.

04

Continue to the next business step

Use confirmed results for receiving, unpacking checks or returns review. Business posting is confirmed separately against interfaces and authorisation.

Workflow outputs Box-level EPC verification details / Lists of expected tags not read and extra tags read / Reference for receiving / unpacking / returns review

Handheld device	C6100 documentation is used as the appearance reference. UHF and scanning engines are optional. Confirm frequency bands, one-dimensional / two-dimensional barcode support and APP compatibility against the selected modules and physical-device validation.
Manifest prerequisites	The packing side has saved the complete item-level EPC manifest linked to the box code and provides authorised lookup. Use one fixed manifest version as the baseline for verification.
Working environment	Choose a separate area with relatively few nearby tags and little interference. Validate placement, reader parameters, packaging materials and nearby-tag effects with actual goods.
Delivery and integration	The current PDA already supports tag reading. New box-code retrieval, item-by-item comparison and subsequent business integration require joint validation with the manifest service before delivery scope is confirmed.

Current capabilities and validation scope

A match cannot be determined without a complete manifest. Expected tags not read may be missed reads; tags read outside the manifest may be cross-reads. Rescan, move nearby tags away or open the box before confirming physical discrepancies. A successful comparison does not automatically mean ERP inventory has been posted and does not replace returns inspection or refund decisions.

Discuss your goods-handling workflow

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Hardware, software, interfaces and services are confirmed against the actual configuration.