

Tool tracking solution using on-metal RAIN tags

The challenge

Implement RFID tool tracking system to quickly identify each item, track usage, determine warranty status and assign user accountability.

Stakeholders/Champions:

Management, purchasing, service technician, maintenance staff, quality control, IT department

Customer challenges:

- Implement tool check-out/check-in
- Improve loss prevention
- Eliminate time searching for specific tools
- Track warranty & calibration status for data analysis
- Read distance of 30cm minimum

Murata's solution

The Product:

P/N: LXTBKZMCMG-010

Small RAIN RFID tag designed to be placed on metal.

How it works:

1. On-metal tag is secured to individual tool
2. Using the tag's unique identification number, this information is added to the factory database along with date of purchase, warranty, etc...
3. Product is moved into inventory
4. Technicians are required to check-out/check-in tool using a centrally placed RFID reader to capture this transaction
5. Data available for analysis

Product features

- Small package size: 6.0 x 2.0 x 2.3mm
- Robust design
- EPC Global Gen 2v2 compliant
- Read range (ref): up to 150cm (4W EIRP)
- Covers UHF frequency band (865~928MHz) etc.
- 100% RoHS compliant

Applications

- Industrial tools
- Surgical tools
- Metal assets
- Consumer items

More info:

RAIN RFID products and solutions:
<https://www.murata.com/en-us/products/rfid/rfid>

Contact:

<https://www.murata.com/en-us/contactform>



1. Attach tag → 2. Read & record data → 3. Inventory/stockroom → 4. Tool check out/in → 5. Review & analysis

