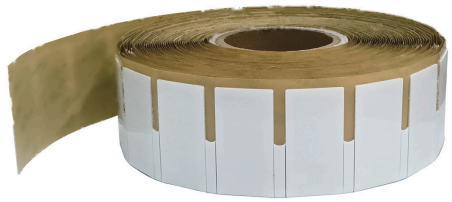
UHF RFID LABEL · ON-METAL

# OMT 6540

## Tamper-Evident On-Metal UHF Label · 65 × 40 mm



The **OMT 6540** is a flexible, **tamper-evident UHF RFID label for metal surfaces**. A 1 mm foam spacer isolates the inlay from the metal, and the **Impinj M830** chip gives a **read range of up to 1 m** in the **865–868 MHz** EU band.

The bright PET face is ready for printing, encoding and data writing, and labels ship on reels for fast application. Use it to identify metal assets and equipment where any tampering must be visible.

| Up to 1 m | 865–868 | 65×40 mm | 10 yrs |
|---|---|---|---|
| READ RANGE | MHZ EU | LABEL SIZE | DATA RETENTION |

### KEY FEATURES

**Built for metal**
A 1 mm IXPE foam layer separates the inlay from the surface, so the label reads reliably when applied directly to metal.

**Tamper-evident**
Fragile label construction makes tampering visible, so you can tell when a tagged metal item has been interfered with.

**Impinj M830 chip**
EPC 128 bits and TID 96 bits, 100,000 write cycles and 10-year data retention.

**Print & encode ready**
Bright PET face accepts printing, encoding and data writing. Supplied on reels with a 76.2 mm core.

TECHNICAL SPECIFICATIONS

# Full Datasheet

## ELECTRICAL PARAMETERS

| | |
|---|---|
| Air interface | EPC Global Class 1 Gen2 / ISO 18000-6C |
| Frequency | 865–868 MHz (EU) |
| IC type | Impinj M830 |
| Memory | EPC 128 bits · TID 96 bits · no user memory |
| IC life | 100,000 write cycles |
| Data retention | 10 years |
| Application surface | Metal |
| Reading range | Up to 1 m |

## MECHANICAL PARAMETERS

| | |
|---|---|
| Tag size | 65 × 40 × 1.2 mm |
| Face material | Bright PET |
| Liner | Glassine |

## ENVIRONMENT

| | |
|---|---|
| Operating temp. | −20 °C to +80 °C |
| Storage temp. | −30 °C to +100 °C |
| Certification | RoHS |

## LABEL STRUCTURE

- **Face** — 50 µm PET + adhesive
- **Inlay** — antenna + Impinj M830 chip
- **Spacer** — 1 mm IXPE foam + adhesive
- **Coating**
- **Liner** — glassine bottom paper

## REEL & UNWINDING

| | |
|---|---|
| Tag pitch | 47 ± 0.4 mm |
| Liner width | 73 ± 2 mm |
| Edge margin | 8 ± 2 mm |
| Reel inner diameter | 76.2 ± 1.0 mm |
| Unwinding | Label facing outside |

## CUSTOMIZATION OPTIONS

- Printing
- Encoding (EPC coding)
- Data writing

## APPLICATION AREAS

- Identification of metal assets and equipment
- Custom-printed, pre-encoded asset labels
- Tamper-evident marking of metal items

RFID·BG

### Talk to Bulgaria's RFID team

End-to-end deployment: consulting, hardware, software, install & support.


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