

### UHF | HF - Hard Tag CT - 3DTag

- Available with UHF or HF Technology
- 3D printed industrial tags
- Made of PLA or ABS (other materials on request)
- Many personalization options
- Customizable form factor



### UHF | HF - RFID Hard Tag Industrial 3D Printed

Standard RFID tags often fall short when projects demand unique form factors, specialized mounting solutions, or quantities too small for injection molding. The CT - 3DTag solves this challenge: a 3D-printed RFID transponder available in both UHF | RAIN and HF | NFC variants, manufactured using the FDM 3D printing process. Each 3DTag is designed, printed, tested, and encoded in-house - delivering a fully customized industrial RFID tag from a single source.

The 3DTag is available in both standard enclosures and fully custom form factors. Standard enclosures cover common industrial mounting scenarios and are available at short lead times. Custom enclosures are developed based on customer specifications or produced directly from supplied 3D print files.

Every 3DTag can be individually personalized. Physical labeling options include serial numbers, barcodes, QR codes, and company logos, applied via laser engraving or durable adhesive labels. On the electronic side, each RFID transponder is encoded with EPC data, UID, or application-specific user memory content. Every 3DTag ships fully encoded and ready for deployment.

### Common Applications

- Industry 4.0
- Logistic
- Assembly Line
- Container Tracking
- Asset Tracking



## TECHNICAL SPECIFICATIONS

### Contactless Interface

Operating Frequency	UHF   RAIN or HF   NFC Frequency Range
Supported Standards	EPC Class 1 Gen 2 - ISO18000-63 ISO 15693 or 14443A
Chip Type	Alien Higgs 10, NXP UCODE9, Impinj M830, NXP ICODE SLIX or NTAG213.
Memory	Up to 8192 bit
Reading Range	8m

### Personalization Options

Laserengraving	Logo, Serial Numer and Datamatrix code
Encoding	NDEF Encoding, EPC Encoding, User Memory Encoding according to customer requirements
Industrial Options	Optional M5 threads, On Metal Option and high temp option

### Physical Characteristics

Dimension	Standard 80 x 40 x 5,8 mm (other dimensions on request)
IP Protection	IP 67
Temperature	-45 °C to +85 °C
Material	PLA or ABS (Other materials on request)