



## MAXDURA® KEG

Superior Performance and Robustness in Tagging Beer Kegs and Other RTI

MAXDURA® KEG hard tags are Smartrac's solution for reliably identifying and tracking beverage kegs, gas cylinders and other curved metal returnable transport items (RTI) under bulk reading conditions. Operating in the UHF frequency range, these RAIN RFID tags are the result of an application-centric development procedure including practical tests in close cooperation with potential business partners.

MAXDURA KEG tags are specifically designed to withstand the harshest treatment. They come in compact and extremely robust ABS casings, and are designed to be permanently glued to the inner face of the keg's collar. Unlike welding, this method does not affect the organoleptic properties of the liquid stored in the keg. There, they are optimally protected, do not interfere with hand transport and allow a lifting rod to be inserted. This specific tag placement also contributes to superior reading characteristics that allow 100% reading rates even when pallets or truckloads with up to 50 kegs pass an UHF RFID gate. Abolishing the need for welding, MAXDURA KEG tags are suitable for building into new kegs as well as for retrofitting existing ones.

MAXDURA KEG tags come equipped with Impinj Monza R6-P ICs that comply with EPC Class 1 Gen 2 and ISO 18000-6C standards and protocols, and meet industry demands by delivering unmatched read performance, data integrity and encoding speeds.

MAXDURA KEG tags can benefit from the capabilities of Smart Cosmos: Smartrac's IoT platform can securely record and manage a complete set of unique transponder data (e.g. UID no., order no., batch no., or yield) at production level. The platform enables full traceability of delivered RFID products and provides reliable quality assurance.

Smartrac's inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment.

### Overview

#### Operating Frequency

860-960 MHz (ETSI)

#### Integrated Circuit (IC)

Impinj Monza R6-P

#### Dimension

53 × 26 × 22 mm

#### Material and Color

ABS, Light grey

### International Standards

- ▶ EPC Class 1 Gen 2
- ISO 18000-6C

### Application Areas

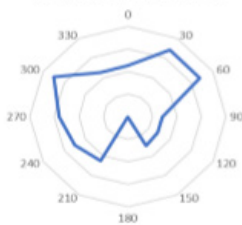
- ▶ Beer Keg Management
- ▶ Gas Cylinder Management
- ▶ RTI for On-metal Application
- ▶ RTI for Non-metal Application

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Technical Features		Sales Code
<b>IC + Memory*</b>	Impinj Monza R6-P EPC Class 1 Gen 2; ISO 18000-6C Protocol compliant EPC 96 bit, TID 48 bit Data retention of 50 years, write endurance 100,000 cycles	3007382
Core Size	53 × 26 × 22 mm / in detail: Length 52,2 mm; base width 26 mm (body casing 21,4 mm); thickness 20,9 mm	
Read Range	@920 MHz: On metal: 10m; on metal keg: 5m @868 MHz: On metal: 8m; on metal keg: 3m	
Operating Mode	Passive (battery-less transponder)	
Operating Temperature	-20°C to + 70°C	
Storage Temperature	-40°C to +85°C	
Adhesive	Glue (for detailed information please contact us )	
Conformity	Radio Equipment Directive 2014/53/EU, REACH, RoHS	
Standards	Vibration test according to IEC 68.2.6; Shock test according to IEC 68.2.29 Impact test according to IEC 62262-1K07 The keg withstands typical cleaning cycles including the use of chemicals such as Na OH.	
Protection Class	IP68 / 2m / 24h	

backscatter radiation pattern ON STEEL KEG 868 MHz  
with another keg stacked on



**Contact:**

Smartrac Specialty GmbH · Gewerbestr. 10 · 51580 Reichshof-Wehrath · Germany  
Phone: +49 2265 9919 0 · Fax: +49 2265 9919 11

**Contact: Sales & Customer Service**  
smartrac-group.com/contact

**Smartrac N.V. · Strawinskylaan 851 · 1077 XX Amsterdam · The Netherlands**  
Phone: +31 20 30 50 150 · Fax: +31 20 30 50 155



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