



## MAXDURA® TURTLE

### High-Temperature Resistance and Optimized On-metal Tagging

SMARTRAC MAXDURA® TURTLE has been designed to meet high-temperature on-metal requirements in challenging industrial environments. It is capable follow a car throughout the manufacturing process, including paint shop.

This RAIN RFID (UHF) hard tag, member of SMARTRAC's MAXDURA product family is a passive transponder based on printed circuit board (PCB) equipped with the NXP UCODE® 7xm integrated circuit (IC). It offers extended memory, supporting 1kbit / 2 kbit of user memory and 448-bit EPC memory and superior performance of 6.5 meters over UHF tags on metal surfaces. MAXDURA TURTLE responds to specific needs to track automotive chassis and other metal parts all the way through the production process. The tag is rated for up to three 10-minute heat cycles of up to 250°C.

The tags contribute to process acceleration, efficiency gains and optimized tracking and tracing of goods and parts. Due to their high resistance, they are very well suited to tap the benefits of passive RFID in harsh environments and demanding industrial applications.

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, enhancing RFID usage for difficult-to-tag materials.

#### Overview

##### Operating Frequency

865-868 MHz (ETSI)

##### Integrated Circuit (IC)

NXP UCODE 7XM

##### Dimensions

28 × 28 × 4 mm

1.10 × 1.10 × 0.16 in

##### Operating Temperature

-25 to 250°C /

-13 to 482°F

#### International Standards

▶ EPC Class 1 Gen 2

ISO 18000-6C

▶ IP68

#### Application Areas

▶ Automotive

▶ Industry

▶ Supply Chain &

Asset Management

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Technical Features	Sales Code 3006158
IC + Memory*	NXP UCODE 7XM 448bit EPC + 2048 bit
Tag Size	28 × 28 × 4 mm / 1.10 × 1.10 × 0.16 in
Materials & Color	PCB, default Smartrac logo; customizable Color Green / Blue
Operating Temperature	min: -25°C / -13°F to max: 250°C / 482°F for 10 minutes
Storage Temperature	-55°C to +185°C / -67°F to 365°F (Edge temperatures are guaranteed for maximum 168 hours)
IP Class	IP68
Shelf Life	20°C / 68°F, 50% RH - minimum 2 years from the date of manufacturing
Qty/Package	100 pcs. / package MOQ 1,000 pcs.

\*Additional memory, protocol and product configurations are available upon request.

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