

deister electronic has developed a complete solution for the automatic identification of vehicles and other objects. The tranSpeed family includes all system components including transponders, readers, controllers, software and all necessary accessories.

These innovative tranSpeed products offer long range contactless identification using either the latest UHF or the over many years proven microwave technology with maximum speed and read range performance. tranSpeed is ideal for car parking and the identification of buses, trains and trams as well as container tracking and logistics.

TPU 7XXX

TPU 7XXX ISO card transponders are ideal for applications where long range identification is needed together with proximity or smart card technology.

Inside these "2 in 1" transponders, there is a passive UHF chip according to EPC GEN 2 Class 1 regulations together with either a 13.56 MHz technology. Leading industry credentials like mifare® and LEGIC® can be included allowing the TPU 7xxx transponders to be used for convenient hands free vehicle access as well as allowing them to be used for existing building access applications. Various security features are included to provide data integrity and to prevent transponder copying.

The transponders are one time programmable (OTP) for customer specific data formats from 1-64 bits. Reference numbers can be printed on transponder for smooth enrollment and personalization services (pictures, logos etc). Programming tools are available for user programming.

TPU 7XXX transponders are easy to attach inside of the vehicles windscreen using a CH 4 card holder and provide long range identification when used with deister's TSU 25 DB reader (UHF Reader) and short range identification with a suitable HF or LF readers like PRD 5 (13.56 MHz technologies).

Your benefits at a glance:

- **Excellent Performance Even on Windscreens Containing Sun Protection**
- **Only One Transponder for Vehicle and Human Access**
- **Cost Effective and Secured**
- **No Maintenance (No Battery) and Temperature Resistant**
- **Durable and small**
- **One Time Programmable (OTP)**



Technical Data

Dimensions:

mm (inch) W x H x D 85 x 54 x 0.84 (3.3 x 2 x 0.03)

Protection Class: IP65

Operating Temperature:

°C (°F) -20...+80 (-4...+176)

Frequency:

MHz 868 (EU), 915 (US)
13.56 MHz

Transponder Technologies:

EPC Class 1 GEN 2

Reading Distance:

UHF in m (ft.) up to 4 (13), depending on reader and environment
LF+HF depending on reader, transponder technology and environment

OTP:

User formats up to 64 bits

Transponder Combinations:

TPU 7X1X UHF + DESFire® EV1
TPU 7X2X UHF + mifare® classic
TPU 7X3X UHF + mifare® plus
TPU 7X4X UHF + LEGIC® prime
TPU 7X5X UHF + LEGIC® advant