

STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

EQUIPMENT

Type of equipment: RFID reader for automatic vehicle identification
Brand name: **XT Mini** Reader us
Type / Model: TagMaster AB
Manufacturer: TagMaster AB

STANDARD

47 CFR §1.1310, §2.1091,
KDB 447498 D01 General RF Exposure Guidance v05r02

CALCULATIONS

The EUT is intended for mobile use and must fulfil MPE requirement given in §1.1310 table 1

The product has an output power of 23 dBm and antenna gain of 4 dBi.

This gives maximum EIRP of 27 dBm or 501 mW.

A worst case calculation is as follows:

$$S = \frac{EIRP}{4 \times \pi \times r^2}$$

$$S = 501 \text{ mW} / (4 \times \pi \times 20 \text{ cm}^2) = 0,10 \text{ mW} / \text{cm}^2$$

Limit for General Population/Uncontrolled Exposure according to §1.1310 for power density at 902 MHz is 0.60 mW/cm². The requirements are fulfilled without testing.

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