

# SolarGuard®

High-performance full standalone RFID terminal

## Standalone RFID terminal for high-speed identification

SolarGuard® is a full standalone UHF terminal designed for contactless identification in the supply chain, traceability and transportation industries. SolarGuard® is totally wireless (communication and power supply) and resists in harsh environments (in wet or corrosive environments, severe temperature fluctuations) for a high performance contactless identification in any place.

### ► High-speed contactless identification

This terminal uses the latest generation of STid UHF readers to identify vehicles moving at more than 200 kph\*. These exceptional levels of performance provide an effective solution for track and trace needs in the rail and road transport industries, for instance.

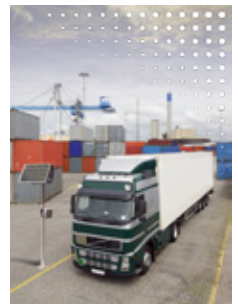
### ► 100% wireless

SolarGuard® is completely wireless, for quick and easy installation. It requires no wiring for communications or power supply. SolarGuard® is self-powered, with a battery, charger and a solar panel to meet all its energy needs.

The terminal also boasts a GSM/GPRS module for instant remote communications with the server of your choice.

### ► High strength

SolarGuard® is designed to withstand environmental conditions in the most demanding areas. Its pole is resistant to wet and corrosive environments and to extreme temperature variations (EN 795). The reader is dust-tight and fully protected from powerful water jets (IP66).



Road transportation  
of goods



Rail road



Area with limited  
infrastructure

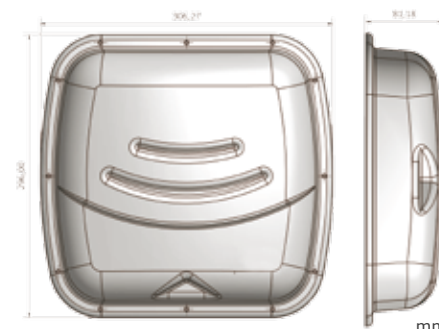
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## 1 UHF reader

Operating frequency/standards	UHF - ETSI Version: 866 MHz & FCC version: 915 MHz
Chip compatibility	EPC1 Gen 2 / ISO18000-6C
Functions	Read only
Antenna(s)	1 internal antenna
Reading distances*	Up to 6 m with TML Tag (all-purpose tag)
Reading speed*	More than 200 km/h (125 mph)
Material	ABS
Operating temperatures	- 20°C to + 55°C - inside / outside use
Resistance	IP 66 / IK07

\*Warning: These values depend on the identifier used, the environment and the reader installation. External interference can lead to lower reader performance levels.



## 2 Sensor/Reader turning on system

Frequency	K-Band - 24 GHz
Detector cell	90 metres - Technology DSP (Digital Signal Processing)
Antenna	Linear - 45°x38°

## 3 GSM/GPRS module

Module	GSM Quad-band module GPRS Class 10 Communication with GSM, SMS and GPRS network
Architecture and memory	ARM7 TDMI 50 MHz 256 ko FLASH / 64 ko RAM / EEPROM 64ko / Card MMC or SD)

The choice of the GSM/GPRS is totally free to provide the most freedom in the integration of the reader in your existing solution.

## 4 Solar panel/Battery/Charger

Autonomy	Virtually unlimited
Solar panel	KD95SX-9P 104 cm x 66 cm
Power P (CTS)	95 Wc
Battery	56 Ah / 12V
Charger	Max 14A
Warranty	10 years (90% of the lower power P)
Mounting kit	Solar panel mounting kit (from 30° to 65°)
Solar panel specifications	High performance cells 15.6 x 15.6 cm

## 5 Mechanics (NF EN795)

Material	Steel S235
Resistance	Harsh environment (Zone 3) - NV65/DTVP06-002
Dimensions	Pole + Board system: h = 3 m, D = 90 mm
Weight	Pole + Board system: 31 kg
Delivery	Kit furniture
Part number	ETSI version: SGD-R47 FCC version: SGD-R57



Approved STid reseller

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