

## RFID Technology for Retail and Logistics

The Intelligent UHF Gate Reader System

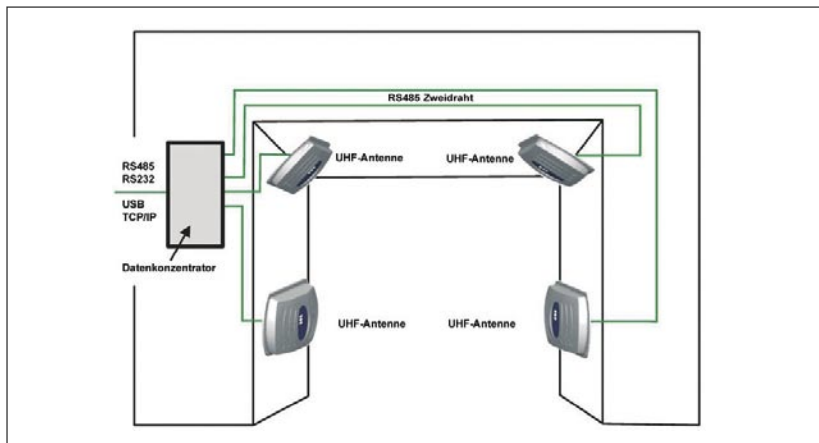


The interrogator skeye.smart UHF has been developed especially for the retail and logistic market to achieve the actual requirements for long range identification and high volume bulk reading of passive smart label transponders.

The compact device includes the read & write unit and optimised antennas to minimize the installation effort. Up to 32 interrogators can be connected to a small network. Up to 8 skeye.smart UHF are connectable to the data management unit/concentrator (DCU) for dock door/portal application or to use extended interface options.

The DCU includes also filtering of data as well as event triggering. The skeye.smart UHF supports almost all types of current transponders e. g. ISO 18000-6 or EPC global. Upcoming transponder types will be integrated by firmware updates to protect your investment against technology changes.

Your specific benefit: No labour-intensive and costly laying of coax cables and HF couplings is needed to connect the antenna units. As the antennas already incorporate HF high-level stages, signal processor and RS485 interfaces, simple two wire cabling is sufficient to install the units.



Portal Application

## SPECIFICATIONS

<b>Dimensions</b>	620 x 280 x 75 mm
<b>Housing</b>	ABS
<b>Protection class</b>	IP54 (optional IP65)
<b>Operating temperature</b>	-20 °C to +70 °C
<b>Storing temperature</b>	-40 °C to +85 °C
<b>Relative humidity</b>	5 % to 95 % non-condensing
<b>Power supply</b>	10 to 30 V/DC
<b>Power consumption</b>	10 W (operational), 2 W (standby)
<b>Operating frequency</b>	865-870 MHz (EU), 902-928 MHz (USA)
<b>Reading distance</b>	Up to 5 m, dependent on transponder type and local environment
<b>Writing distance</b>	Up to 4 m, dependant on transponder type and local environment
<b>HF-Parameter</b>	2 W ERP (ETSI EN 302 208), optional 0,5 W (ETSI EN 300 220) 4 W EIRP (FCC Part 15), output power configurable in 10 steps
<b>Transponder protocol</b>	ISO 18000-6 Type A/B (e.g. Philips UCode, EM 4223) EPC Class 1, Gen 1 others ATMEL TAGIDU, EM 4422
<b>Interface</b>	RS 485, Open Collector
<b>Anti-Collision speed</b>	Up to 100 transponder/sec.
<b>Compliance</b>	EN 302 208, EN 300 220, EN 301 489, EN 50364, FCC Part 15
<b>Accessories</b>	<b>DCU1:</b> Up to 4 skeye.smart UHF connectable 2 digital inputs, 2 digital outputs RS485 (optional RS232, USB or Ethernet) <b>DCU2:</b> Up to 8 skeye.smart UHF connectable 2 digital inputs, 2 digital outputs RS485 (optional RS232, USB or Ethernet) Integrated filter, storage and server function

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