Active RFID Readers

SCIEL READER *Lite*

Ref. SCIBT22D

- Fully Dedicated for Telematics Applications
- Easy, Flexible and Wireless solution for
  - ✓ automatic identification (driver, trailer, assets)
  - ✓ automatic sensor monitoring (temperature, humidity, third-party analog sensor)
  - ✓ automatic event detection (door opening, asset movement)
- RS232 Interface for connection with your AVL device
- Compact form factor for easy integration in any vehicle
- Powerful “Hub” for all our Active Tags and Wireless RFID sensors
- Internal RFID 433MHz antenna AND external antenna connector

❶		AVL device (GSM – GPS)	❺		Wireless RFID Temperature Sensor for Temperature Monitoring
❷		SCIEL READER *Lite*	❻		Wireless RFID Humidity Sensor for Humidity Monitoring
❸		Active RFID tag for Driver ID	❼		Active RFID Tag for Asset ID for Automatic Inventory
❹		Active RFID tag for Trailer ID	❽		Wireless RFID Magnetic Sensor for Door Opening Detection

TECHNICAL SPECIFICATIONS	
External Power Supply	10-26VDC (with accepted voltage peak up to 32VDC) or 5VDC through Output Power from AVL device Selection by internal jumper
Average Current	25mA
Frequency	433,92 MHz
Receiving Range	Adjustable by software command Internal Antenna's receiving range: up to 15m External Antenna's receiving range: up to 80m (depending on external antenna's type)
Output Interface	RS232 (RX/TX)
Active RFID Antenna	Internal antenna or external antenna F-SMA connector Selection by internal jumper
Connectors	6-pin µFit Connector (Power, RX, TX, 0,1A Open Collector Output, Ground) Female SMA connector (for external RFID antenna)
Settings	ERM Configuration tool provided for PC running on Windows XP, W7, W8 Programming by specific RS232 – USB cable
DEL Indicators	Power (green), ID frame reception (yellow)
Housing	ABS Grey housing : 96 x 40 x 20 mm 2 mounting slotted holes 12 x 3.5 mm
Operating Temperature	-20°C to +60°C
Standards	EN 301 489 – 3 : 2002 V1.4.1 ; EN 300 220 – 2007 : V2.1.2 ; CE Mark ; RoHS Certified
Accessories	RS232/ USB programming cable – reference ACIOM08 Active RFID 433MHz antennas for automotive applications

DETAILED CURRENT CONSUMPTION	
Voltage	**Mean current**
5VDC	21mA
10-26VDC	22,3mA

6-pin µFit Connector	
PIN	Description
1	Power Supply
2	Reader RX
3	Reader TX
4	Open Collector Output (0.1A, 30V)
5	External Power Supply Ground
6	RS232 Ground