

# UHF



## R630

### UHF reader 'Universal'

- Long-range, fast read/write function
- Robust, fully sealed metal housing
- Relays, parallel I/O, access interfaces
- Support for 4 antennas, tag filtering
- Open and powerful GNU/Linux platform
- SDK supported

### Description

Scirocco's 'Universal' reader R630 is designed for excellent connectivity e.g. to existing access control systems, and fits applications with high requirements regarding reading distance, passage speed, demanding conditions and where user want to embed their own application inside the reader. Together with antennae A100 or A110, it offers a high-capacity zone for safe reading and writing of tags at large distance and high speed. Up to 4 antennas can be connected.

R630 features an open GNU/Linux platform and is communicated via Ethernet TCP/IP with DHCP or static IP, and/or via RS232, Mag-stripe or Wiegand interfaces. Customer applications, functions and protocols are easily embedded by the help of supported cross compiling SDK tools and debugger. The reader features up to 4+4 fast parallel galvanic isolated I/O and four built-in relays, and is housed in an all-weather, sealed metal housing. R630 conforms to latest ETSI legislation with 4 channel operation, and to ISO 18000-6C (C1G2) UHF standard which guarantees interoperability with C1G2 compatible tags. WLAN or GPRS are optional features.

### Technical data

Operating frequency	4 channels within the 865 - 868 MHz band
Read range with tags T100/T200/T500	7 - 10 m with antenna A100 and four metres antenna cable
Write range with tags T100/T200/T500	3.5 - 5 m with antenna A100 and four metres antenna cable
Zone width at 3.0 m distance	3 m with antenna A100
Reading rate	170 reads/s (EPC 96 bits), 40 reads/s (TID), 25 reads/s (EPC + TID + User memory)
Interfaces (inputs are interrupt driven)	Ethernet TCP/IP w DHCP/static IP, RS232, Mag-stripe, Wiegand, 4+4 I/O, four relays
GNU/Linux platform with shared library	600 MHz ARM Cortex-A8 CPU with 256 MB RAM and 2 GB flash
Input voltage and power consumption	10 – 30 Vdc, 18 W reading/writing, 9 W idling
Antenna connection	4 x TNC-R jack
Dimensions and weight	160 x 218 x 46 mm, 1.5 kg
Temperature	-20 to +50 °C (operating), -40 to +50 °C with heater option. -40 to +85 °C (storage)
Protection class, Humidity	IP 65, 95% non-condensing
Vibration	6g (0.02 g <sup>2</sup> /Hz, 0.5h x3 dir, 10-2000 Hz)
Electromagnetic compatibility	EN 301 489-1, EN 301 489-3
Radio regulation and -protocol	EN 302 208-1, EN 302 208-1-2 and ISO 18000-6C (C1G2)
Indicators	LEDs indicating antenna select/reading status and connected power
Cover	Aluminium housing with flanges for M5 screws

### Key data

Read distance	10 m
Read/write distance	5 m
Passage speed T200/T300/T500	200 km/h
Interface and functional options	X01, X02...

### Order data

UHF Reader 'Universal'	R630
Power and com cable	A20
I/O cable	A21
Antenna cable	A40, A41

Subject to change without prior notice

DSR630B