

## r3Com

### Main Features:

- Wireless Communication System
- Guaranteed Radiation Hardened > 1kGy
- OEM or integrated system
- No accumulation of contamination
- Real time monitoring of cumulative radiation level
- Dedicated interface
- High reliability



### Product in brief:

This system is designed and manufactured by ELEMENTS. The system is telemetry and telecommand (TM/TC) hardened function, a wireless communication system, especially designed to be used in nuclear radiation environment.

It allows reliable remote control for systems operating in hostile environments and it is fully compliant with nuclear safety regulation.



The system is sold as an OEM or an integrated system.

**Technical Features:**

Feature	Specifications
<b>Wifi standard</b>	802.11 b/g/n/ac
<b>Datalink protocol</b>	Full Duplex MIMO
<b>Frequency</b>	2.4GHz or 5 GHz (to be selected)
<b>Security</b>	WPA2 / MAC
<b>Radiation (Total ionizing Dose Co6o)</b>	> 1000Gy
<b>Materials</b>	Decontaminable / compliant to nuclear waste management rules
<b>Typical overall dimensions</b>	300 x 200 x 200 mm
<b>Mass</b>	approx 6kg
<b>Temperature range</b>	-20°C to +60°C
<b>Humidity</b>	0% to +90%
<b>IP Protection</b>	> IP54
<b>Power supply</b>	12 Vdc, 220 Vac
<b>Power Consumption</b>	≤ 15W
<b>Compliant with mobile systems</b>	Speed up to 5kmh
<b>Performance and Reliability</b>	
<b>Management</b>	Soft and Hard auto-diagnosis
<b>Emergency management</b>	Manual and automatic emergency stop
<b>Mechanical interface</b>	Generic and specific adaptable interface available
<b>Documentation</b>	User and Maintenance manuals
<b>Antenna type</b>	Omnidirectionnal
<b>Electrical interface</b>	Ethernet 100BaseT
<b>Contamination Protection</b>	Vinyl bag (option)
<b>Atex</b>	Option
<b>Antenna protection</b>	Decontaminable cover (option)
<b>Area for use</b>	Indoor and Outdoor
<b>Connectors (typical)</b>	1xRJ45 Female, 1xAmphenol Male
<b>User interface</b>	Software (Windows 7)

*ELEMENTS reserves the right to change or modify herein content without notice.*

**Space heritage for nuclear market:**

ELEMENTS is a company located in Toulouse, France. ELEMENTS develops embedded modular systems for nuclear field based on space market background.

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