

UHF | RAIN - Hard Tags Xerafy - Roswell

- Comes with Alien Higgs 3 or 9 chip
- Temp resistant up to 250°C
- Up to 5 meter reading range
- Suitable for on metal mounting
- Available as ATEX certified version



UHF | RAIN - Ultra Rugged RFID Tag for harsh environments

The ROSWELL series from Xerafy epitomizes durability with ultra-rugged UHF RFID tags engineered for the most challenging environments. These tags are ideal for heavy-duty applications in industries such as oil and gas, construction, mining, rail, and healthcare, where tags must endure extreme conditions. ROSWELL series tags are built to survive high temperatures, intense pressures, and severe mechanical stresses. These tags are also fully waterproof and capable of withstanding prolonged exposure to harsh chemicals and corrosive environments.

With the ROSWELL series, the award-winning Xerafy engineering team offers a patented design that includes options for flush mounting or secure attachment using welding, rivets, or screws. Each tag is crafted from high-grade materials like stainless steel, aluminum, and high-performance engineered polymers, ensuring peak performance under extreme industrial conditions.

The tags are available in an autoclavable version for medical and food processing applications and ATEX-certified versions for safe deployment in explosive atmospheres.

Common Applications

- First choice for Oil & Gas applications
- Best for offshore applications
- Best for automotive manufacturing
- Best for food processing plants
- Full performance in asset trackubg



ROSWELL Autoclavable

ROSWELL

XPLORER Surface

XPLORER Downhole



OEM Part Number (P/N)	X1114-EU143-H9 (EU) X1114-US143-H9 (US)	X1114-EU101-H3 (EU) X1114-US101-H3 (US)	X1115-EU111-H3 (EU) X1115-US111-H3 (US)	X1115-EU101-H3 (EU) X1115-US101-H3 (US)
Frequency	865-868MHz (EU) 902-928MHz (US)	865-868MHz (EU) 902-928MHz (US)	865-868MHz (EU) 902-928MHz (US)	865-868MHz (EU) 902-928MHz (US)
IC type	Alien Higgs 9	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3
Chip memory	48 bits TID / 96 bits EPC / 688 bits user memory	64 bits TID / 96/480 bits EPC / 512 bits user memory	64 bits TID / 96/480 bits EPC / 512 bits user memory	64 bits TID / 96/480 bits EPC / 512 bits user memory
Read range on metal (fixed)	Up to 5 m	Up to 5 m	Up to 1.5 m	Up to 1,5 m
Read range off metal (fixed)	Limited	Limited	Limited	Limited
Material	Stainless steel, High-performance engineered polymer	Aluminum, High-performance engineered polymer	Stainless steel 316L, High-performance engineered polymer	Stainless steel 316L, High- performance engineered polymer
Mounting systems	Welding, Rivets M4, Screws M4, Cable ties	Welding, Rivets M4, Screws M4, Cable ties	Snap in, Embedded	Snap in, Embedded
Operational temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Survival temperature	-40°C to +250°C	-40°C to +250°C	-50°C to +250°C	-50°C to +250°C
Compression strength	7,900 kPa	793 kPa	< 89 MPa	< 89 MPa
IP rating	IP68, IP69K	IP68	IP68, IP69K	IP68, IP69K
Dimensions	48 x 28 x 13.50 mm	48 x 28 x 13.50 mm	ø 28.30 x 8.50 mm	ø 28.30 x 8.50 mm
Weight	44 g	21 g	25.40 g	25.40 g
Applications	Sterilizable surgical trays Medical devices Oil & Gas valve/wellhead management Food processing plants Automotive manufacturing	Oil & Gas valve / wellhead management Food processing plants Automotive manufacturing	Yard management for Oil and Gas pipes Pipe maintenance Heavy equipment in mining Building sites in construction High-Pressure ovens	Onshore and offshore oil pipes management Downhole assets tracking