

UHF | RAIN - Hard Tags RFCAMP - PCB FR4 Tag

- Comes with Alien Higgs 9 chip
- Temp resistant up to 150°C
- Up to 10 meter reading range
- Suitable for on / off metal mounting



UHF | RAIN - PCB FR4 Tags Industrial UHF Transponder

RFCAMP's UHF | RAIN - RFID tags are ideal for asset tracking, factory automation, and automotive applications.

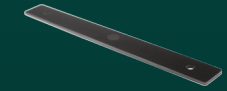
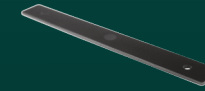
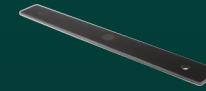
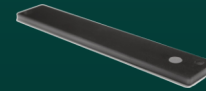
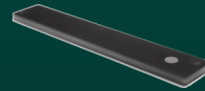
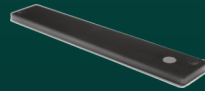
These versatile PCB transponders are highly customizable and offer options for encoding and laser engraving. They can also be mounted on or off metal. With an IP68 protection rating, they can withstand temperatures of up to 150°C and are resistant to various chemicals, including petroleum, alkali, and acid.

Common Applications

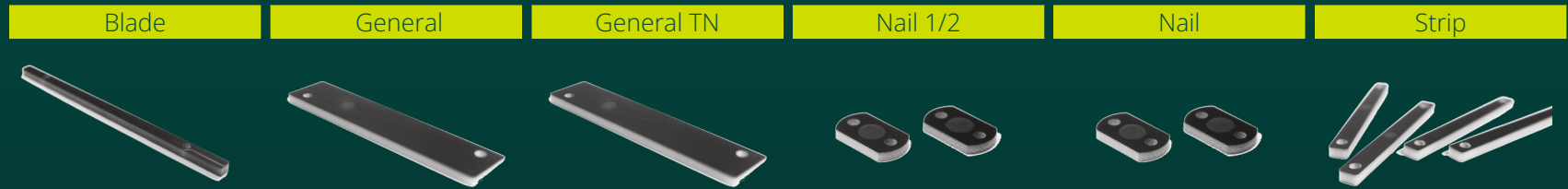
- Industry 4.0
- Railway
- Automotive
- Asset Tracking
- Defense Industry



	Basic	Basic L	Basic MAG	Fastener	Fastener TK	Fastener MAG
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OEM Part Number (P/N)	921631E	110203E	9216MGE	148183E	148184E	14818MGE
Frequency	865-868MHz	865-868MHz	865-868MHz	865-868MHz	865-868MHz	865-868MHz
IC type	UCODE8	UCODE8	UCODE8	UCODE8	UCODE8	UCODE8
Chip memory	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC
Read range on metal (fixed)	Up to 10 m	Up to 12 m	Up to 5 m	Up to 13 m	Up to 15 m	Up to 15 m
Read range off metal (fixed)	Up to 2 m	Up to 3 m	N/A	Up to 10 m	Up to 13 m	N/A
Material						
Mounting systems	Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw	Magnet, Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw	Magnet, Glue, Backing adhesive tape, Plastic screw
Operational temperature	-40°C to +85°C	-40°C to +85°C	-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 +150°C	-40°C to +150°C	-40°C to +150°C	-40°C to +150°C	-40°C to +150°C	-40°C to +150°C
Compression strength	5000 kPa	5000 kPa	5000 kPa	5000 kPa	5000 kPa	5000 kPa
IP rating	IP68	IP68	IP68	IP68	IP68	IP68
Dimensions	92 x 15.8 x 3.1 mm	110 x 20 x 3.1 mm	92 x 15.8 x 6.2 mm	148 x 18 x 3.1 mm	148 x 18 x 4.1 mm	148 x 18 x 12.5 mm
Weight	9.6 g	14.8 g	12.6 g	16.7 g	21.4 g	33 g



	Blade	General	General TN	Nail 1/2	Nail	Strip
OEM Part Number (P/N)	139641E	751631E	751621E	140821E	151021E	600631E
Frequency	865-868MHz	865-868MHz	865-868MHz	865-868MHz	865-868MHz	865-868MHz
IC type	UCODE8	UCODE8	UCODE8	UCODE8	UCODE8	UCODE8
Chip memory	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC
Read range on metal (fixed)	Up to 8 m	Up to 8 m	Up to 5 m	Up to 0.1 m	Up to 0.1 m	Up to 2 m
Read range off metal (fixed)	Up to 7 m	Up to 5 m	Up to 3 m	Up to 0.4 m	Up to 0.3 m	Up to 0.5 m
Material						
Mounting systems	Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw
Operational temperature	-40°C to +85°C	-40°C to +85°C	-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 +150°C	-40°C to +150°C	-40°C to +150°C	-40°C to +150°C	-40°C to +150°C	-40°C to +150°C
Compression strength	5000 kPa	5000 kPa	5000 kPa	5000 kPa	5000 kPa	5000 kPa
IP rating	IP68	IP68	IP68	IP68	IP68	IP68
Dimensions	139 x 6 x 4.1 mm	75 x 16 x 3.1 mm	75 x 16 x 2.1 mm	14 x 8 x 2.1 mm	15 x 10 x 2.1 mm	60 x 6 x 3.1 mm
Weight	6.5 g	4.7 g	7.7 g	0.5 g	0.4 g	2.2 g

Smallest

Smallest TN

Smallest TK

Smallest MAG

Smallest NM



OEM Part Number (P/N)	381031E	381021E	381041E	3810MGE	451031G
Frequency	865-868MHz	865-868MHz	865-868MHz	865-868MHz	865-868MHz
IC type	UCODE8	UCODE8	UCODE8	UCODE8	UCODE8
Chip memory	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC	96 bits TID / 128 bits EPC
Read range on metal (fixed)	Up to 3 m	Up to 2.5 m	Up to 4.5 m	Up to 4 m	N/A
Read range off metal (fixed)	Up to 0.5 m	Up to 1 m	Up to 1 m	N/A	Up to 4 m
Material					
Mounting systems	Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw	Magnet, Glue, Backing adhesive tape, Plastic screw	Glue, Backing adhesive tape, Plastic screw
Operational temperature	-40 °C to +85 °C	-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 +150 °C	-40 °C to +150 °C	-40 °C to +150 °C	-40 °C to +150 °C	-40 °C to +150 °C
Compression strength	5000 kPa	5000 kPa	5000 kPa	5000 kPa	5000 kPa
IP rating	IP68	IP68	IP68	IP68	IP68
Dimensions	38 x 10 x 3.1 mm	38 x 10 x 2.1 mm	38 x 10 x 4.1 mm	38 x 10 x 4.8 mm	45 x 10 x 3.1 mm
Weight	2.4 g	2.8 g	3.2 g	4 g	2.9 g