

## Active Read Only Tags “Active NOW”

The 2,45GHz Active NOW Tags are Read Only tags used to identify and localize items or individuals. They are built around innovative 0,18µm low-power CMOS integrated circuits. This high scale of integration allows for very compact and low-power performance. The tags come with a pre-configured wake up time (between 2 and 20 seconds) which can guarantee battery lifetimes between 4 and 7 years. The unique battery lifetime is achieved without sacrificing the reading range. A reading range of 60m in free space is achieved with the iDTRONIC Active NOW 2,45GHz Controller family.



Two water-resistant packages IP65 are available: The extra slim Badge Credit Card, or the Domino format. These two packages have been designed to work in aggressive environments. The reading and writing range of up to 60m in free space is achieved with the IDTRONIC Active NOW Controllers. The anti-collision mechanism allows for thousands of tags to be simultaneously present in the range of one single Controller.







The unique transmission features make this tag useful also in difficult environment, where non-friendly RF material is present: metal surroundings, concrete walls, water proximity... The alteration of the transmission remains usually un-influenced given the harsh conditions in which the Active NOW Tag is operating.

### Product specification:

<b>Available sizes:</b>	54 x 85,5 x 4mm (Credit Card) 31 x 90 x 10,5mm (Domino)
<b>Humidity protection:</b>	IP65
<b>Colour:</b>	White, customizable on request
<b>Input supply voltage:</b>	Min 2.7V Typ. 3.0V Max 3.3V
<b>Battery lifetime:</b>	Up to 7 years
<b>Temperature range for operations:</b>	-10°C to +55°C
<b>Temperature range for storage:</b>	-20°C to +70°C
<b>Band:</b>	Worldwide unlicensed ISM band
<b>Operation frequency (RF):</b>	2,4GHz
<b>Radio Regulation:</b>	ETS300-440 Rx Class 3; Tx Class 8;
<b>Safety :</b>	EN50364: 2001 (Limitation of human exposure to EM fields)
<b>Coding:</b>	Manchester
<b>Bit rate:</b>	4.800 bps
<b>Read range:</b>	Up to 60m
<b>Option:</b>	Tag holders (horizontal or vertical)
<b>Order number:</b>	R-AN-1401 (Credit Card) R-AN-1402 (Domino)

## Product – Data Sheet

Available “Active Now” Readers and Antenna:

Serial Controller	WiFi Controller	GPS/GPRS Controller	Direct Antenna
			
R-AN-1901	R-AN-1902	R-AN-1903	R-AN-1906