

Almond Tag “Active NOW”

The 2,45GHz Almond Tag Active NOW used to identify and localize items. 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 up to 4 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.



The iDTRONIC Almond Tag has two operation modes. In the Read Only Mode, the LED is blinking at each transmission. In Read/Write Mode the LED can be remotely activated on request in order to visually identify the tags that are being interrogated. On the rear part is a micro tamper switch integrated. 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 ...





The alteration of the transmission remains usually un-influenced given the harsh conditions in which the Active NOW Tag is operating.

Product specification:

Available sizes:	49,2 x 24,6 x 9,5mm
Humidity protection:	IP65
Colour:	White, customizable on request
Input supply voltage:	Min 2.7V Typ. 3.0V Max 3.3V
Battery lifetime:	Up to 4 years
Temperature range for operations:	-10°C to +55°C
Temperature range for storage:	-20°C to +70°C
Band:	Worldwide unlicensed ISM band
Operation frequency (RF):	2,4GHz
Radio Regulation:	ETS300-440 Rx Class 3; Tx Class 8;
Safety :	EN50364: 2001 (Limitation of human exposure to EM fields)
Coding:	Manchester
Bit rate:	4.800 bps
Read range:	Up to 60m
Option:	Adhesive Back
Order number:	R-AN-1405

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