RFID Sensors 2017-2027: Forecasts, Players, Opportunities

Description: The general RFID market has seen substantial growth over the last few years, with successful public offerings and rapid growth in terms of the number of RFID tags sold. Vendors are now exploring allied technologies with RFID sensors at the forefront of this. RFID sensors combine a sensors system (such as monitoring temperature, humidity, shock, pressure or moisture) with RFID communications.

This has been enabled thanks to new chipsets, at both HF (NFC) and UHF (RAIN) which are dedicated to support sensor platforms and therefore make RFID sensors simpler to make and lower cost in addition to the increasing maturity and wider scale adoption of RFID reader infrastructure. Additionally, new technologies from printed sensors and flexible batteries to bio sensing films meet unmet needs and provide differentiation.

Different technologies approach different market segments

Several different technology categories exist, namely:

1. Passive RFID sensors with no on board power source
2. Passive RFID tags with bio sensors, with no board power source
3. Battery assisted passive RFID sensors
4. "Chipless" RFID sensors - without a conventional silicon chip

From the above options, most can be bought to operate at either HF or UHF RFID, with HF RFID options offering a wider reader network thanks to NFC enabled consumer electronic devices albeit with limited read range of UHF devices with longer read range but requiring more expensive reader systems. The RF protocols developed for RFID are effectively being used as a means of data transfer of sensory information.

RFID Sensors 2017-2027 is the first report that covers all these options, the players behind the ICs, sensor tags and systems, the applications, trends and market size, forecast over a ten year period. The report draws comparisons form and assesses the related data logger market, and explores the role for RFID Sensors within that. SWOT (Strength, weaknesses, opportunities, threats) reports are given for the leading players, along with application case studies and impartial assessment of the whole sector.

Detailed Forecasts

For the first time, this report provides detailed forecast breakdowns of the entire sector, including:

- Forecasts in unit numbers for each technology type, for 2017-2027
- Forecasts of average sales price for each technology type, for 2017-2027
- Forecasts for total RFID sensor tag market value for each technology type, for 2017-2027
- Forecasts for systems cost (including readers, software, networking), for 2017-2027
- Total RFID Sensor market value (tags and systems), for 2017-2027
- Breakdown by HF versus UHF RFID Sensors, for 2017-2027

Technology Innovations In addition to assessing the current capabilities of the existing solutions, the research also includes the progress with RFID sensor systems based on recent technology innovations including printed temperature sensors and antennas, flexible batteries and flexible transistor circuits. The timelines and capabilities of these technologies, in addition to the players, are all covered.

17 years' experience covering the RFID and wireless sensor market research has covered the RFID market since 1999, providing the most granular and accurate data on the sector above all others. Our long standing relationships with those in the industry, together with our accurate prior forecasting and respected impartial views have been part of the basis on which this report has been conducted. Extensive interviews were conducted with the key players, from IC makers to system integrators, with additional voice of the customer surveys to validate the needs of the technology.

If you seek to understand this sector, the players, your opportunities, and not repeat the mistakes of others, this is the ideal report for you.
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