

rfid as a feature



Key Benefits:

- Optimize RFID system read range
- Reduce power consumption
- Simplify application integration
- Improve time to market
- Reduce costly/timely re-work
- Meet strict regulatory requirements
- Minimize need for internal antenna resources and capabilities

Key Services:

- Custom antenna design
- Antenna tuning
- Prototype development
- Volume manufacturing
- HF (13.56 MHz) and UHF (862-955 MHz)
- Regulatory for FCC, ETSI, Japan etc.
- Services cover all antenna 'Types' (e.g., Fractal, Dipole, Inductive UHF etc.)
- Ability to work with a variety different materials

Antenna Design Services



SkypeTek Antenna Design Services

Customer Pains:

RFID is increasingly being embedded in customers' products to enable new applications. Unlike traditional supply chain applications that have predictable environments and use off-the-shelf solutions, these new applications have complex design specifications and require carefully customized RFID components. One of these critical components is the RFID antenna, which has a profound impact on the performance and read range of the overall solution. Selecting the right antenna for your application can be a daunting task for several reasons:

- Off-the-shelf antennas can rarely be used for custom applications
- Antennas must be carefully designed to optimize performance of the solution
- Few companies provide antenna design capabilities that cover the gambit of customer needs

Services Overview:

SkyeTek offers custom RFID antenna design and development services to customers looking to safely, efficiently, and successfully integrate complete RFID solutions. SkyeTek leverages its partner network and its expertise in RFID in order to deliver antenna services that encompass:

- Custom antenna design for unique applications, covering both HF (13.56 MHz) and UHF (860-960 MHz) frequencies and all key regulatory certifications
- Expertise in all key regulatory regions worldwide
- Antenna tuning for performance optimization with SkyeTek SkyeModules
- Antenna prototyping for system test and pilot
- Complete volume manufacturing



About Skyetek:

SkyeTek, Inc., maker of ReaderWare™, is the leading supplier of RFID reader software and reference designs that enable the pervasive adoption of RFID technology. SkyeTek's Tagnostic™ reader technology works with most industry standard tags and smart labels, its low power requirements and a small form factor make it the optimal choice for embedding into new or existing products. SkyeTek's RFID reader technology is available in several formats including reader modules, hardware reference designs, and the ReaderWare software suite. SkyeTek markets to OEM customers in targeted vertical markets with several high-volume licensing options available.

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Applications:

SkyeTek's antenna design services have been created specifically for applications that require custom development of small form factor, high performing, embedded RFID antennas:

- Access Control
- Asset Tracking
- Consumable Authentication
- Contactless Payment
- Handheld Reading/Encoding
- Inventory Tracking/Supply Chain Management
- Item-Level Inventory Management (including inductive UHF)
- Machine-to-Machine Auto Configuration
- Patient Safety
- Patron Management

SkyeTek and its partners have experience developing RFID antennas that have differing requirements around: frequency support, regulatory certification, antenna type, and material integration:

Frequency Support:

- HF (13.56 MHz)
- UHF (860-960 MHz)

Regulatory Environments:

- Korean (MIC)
- ETSI
- Japan
- FCC

Types of Antennas:

- Fractal
- Dipole
- Patch
- Microstrip
- Horn
- Yagi
- Loop
- Inductive UHF

Development with Materials:

- Flex circuit antennas
- PCB Inlay
- Ferrite
- Ceramic