



## **SONTEC Co., Ltd.**

*Manufacturer of specialized RFID tags, antenna, readers, and software. RFID tags for metal materials, liquid containers, ID cards, currency, underground waste, vehicle and ship parts tracking, heavy equipment tracking, tree tagging, key chains, bolts. Provides extreme heat resistant tags and micro tags (<17mm).*

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## **Corporate Overview**

SONTEC Co., Ltd. is a Korean-based company that specializes in the development and manufacture of RFID metal tags, antenna and middleware including Hand-Held Readers. SONTEC has successfully brought to market an extensive line of RFID metal tags that supports the deployment of RFID-based solutions in industrial and logistic environments. These products include metal tags, antennas, car-sticker tags, access control/ID-cards, handheld readers, and middleware. With the market for RFID expected to reach \$7.26B in 2008 related to applications that in 2005 have been in emerging markets such as access cards, automotive transport, and smaller miscellaneous applications (*Source: IDTechEx Report: RFID Forecasts, Players & Opportunities 2006-2016, January 2006, <http://www.idtechex.com/products/en/articles/00000169.asp>*), the Company is wellpoised to capitalize on this positive trend in the prospective years to come.

## **Corporate Profile**

Strategically located in JeonNam, Korea, SONTEC has grown rapidly since its founding in 1999 to where it is today – a competitive world player in the RFID industry. This progress began in 1999 with a supply agreement with POSCON, and in 2000, the

Company joined POSPIN. In that same year, the Company became a member of KITA (Korea International Trade Association) and subsequently entered into a partnership with POSDATA. In 2004, SONTEC joined the RFID/USN (Ubiquitous Sensor Network of Korea) and then proceeded to file a number of patent applications on metal mounted tags. Two more patent applications followed subsequently for readers and antennas. In 2005, SONTEC was awarded the “Excellence & Innovation Company Award”. SONTEC continued to build its strategic positioning by entering into a number of agreements with UPM Rafsec of Finland, ThingMagic of USA, and Identec Solutions of Canada. Today SONTEC enjoys strategic relationships with Samsung, LG, and Korea Data and is continually focused on building positive and mutually beneficial relationships particularly in the areas of auto-ID related system integrators, distribution/logistics related firms, port security, and RFID solution providers specializing in factory automation.

## **SONTEC Products, Solutions & Specialty Tags**

### **Metal RFID Tags & Antenna**

One of the major factors hindering the widespread adoption of RFID technology today is the inability to read UHF tags on metallic or liquid objects. It was also discovered that radio waves are not only reflected by metals, but are also weakened by eddy currents within the range of both the reader and tag antennas that severely reduce signal capacitance. In environments surrounded by metal objects and structures, using RFID effectively becomes a problem. SONTEC’s RFID metal tags overcome this problem effortlessly. Each tag is equipped with a transponder unit and a memory chip and when a RFID reader equipped with a decoder and transceiver emits a signal, the tag gets activated to either store or retrieve the data. These tags work in 900MHz band and have a reading range of 10 meters when mounted on metal surfaces. The tags also feature multiprotocol support (EPC Class 0/0+, EPC Class 1, ISO18000-6b/Ucode 1.19, Gen 2) making them flexible enough to be deployed in RFID networks of varying frequencies. Other types of tags featured by SONTEC include car sticker tags that allow for real-time traffic information suitable for implementation in parking lots, and vehicle logistics applications. SONTEC also features RFID antennas that function in 900MHz band as well and long range linear and circular in its characteristics. Aside from that, ceramic patch antennas for RFID handheld readers and printers are also carried by SONTEC.

### **Access Control/ID Card**

SONTEC’s line of access control and ID cards feature a dual frequency access control card that utilizes the 13.56/900MHz frequency spectrum as well as 900MHz. The cards feature a coil and memory chip-set on a substrate that can be activated at a relative distance due to the extensive range of the UHF signal. These cards are popularly used in secure access control environments, user-identification, and activity tracking applications.

### **RFID Handheld Reader/Writer**

Complete in a sturdy, compact, and portable form-factor, the SONTEC's RFID handheld reader/writer is the epitome of mobile data management. The handheld reader/writer operates in the frequency range of 902 – 928MHz, a 12VDC 2A power supply, LANcompatible networking (to allow for compatibility with enterprise systems), and is firmware upgradeable. The handheld reader fits comfortably in the palm allowing users greater mobility while looking for specific items such as merchandise, inventory, or other assets to scan and tag. It can also be used to manually scan and program individual tags. Instead of reading all tags in an area at one time, users can selectively read and program only particular items allowing for greater operational flexibility and efficiency.

### **RFID Middleware**

No RFID system is complete without middleware. SONTEC's middleware allows for the management of RFID readers and the transfer of EPC (Electronic Product Code) from readers to MES (Manufacturing Execution Systems) / ERP(Enterprise) and SCM (Supply Chain Management) systems maintaining compliancy with EPC Global standards.

## **SONTEC Representative Global Client List**

### **Korea**

- Samsung Electronics
- POSCO Heavy Industry
- LG-Hitachi
- Seveluck/Lotte Hotel & Casino
- E-Mart –Korea's Largest retailer

### **International**

- USS-POSCO (USA) - asset tracking
- Urang (China)– Liquor tracking
- LPR Global (USA-Canada) – Asset tracking
- Bosan Steel (China) – Asset Tracking
- Oonishi (Japan) – Asset tracking/management
- MRF (Japan) – tag distributor



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