



## Intellex STT-8000

# General Purpose RFID Tag

- Up to 100 meter (300+ ft) read/write range
- Exceptional read/write reliability in real world environments
- Long battery life (up to 4 years), based on duty cycle
- Stores E-manifest, maintenance records, custody chain, and more locally on tags
- Lockable read/write user memory protects data integrity
- 1 Kb block level locking with separate read/write permalock password protection
- Rugged, compact form factor tags

The Intellex STT-8000 tags are rugged, compact tags designed for a wide variety of indoor and outdoor applications. The tags provide exceptionally high read/write accuracy and long range operation, ensuring accurate reads and writes on fully-loaded pallets and containers at up to 100 meters. In addition, the STT-8000 tag's proprietary wake-up circuit ensures long battery life with persistent data storage. The tag's innovative security features provide secure on-tag data access. Intellex XC3 Technology™ tags are the first to integrate all of these features onto a single chip.

Based on ISO and EPCglobal standards, the STT-8000 offers outstanding performance in a thin profile when mounted on plastic, cardboard and other non-metal surfaces. The tags can be mounted with adhesives, screws or plastic cable ties on reusable containers, pallets and parts bins. Intellex also offers other tags designed specifically for RF-challenging environments where metal, liquids or extreme temperatures are involved.

### Product Features

<b>Device Type</b>	Class 3 RFID (battery-assisted passive) single chip transponder
<b>RF Interface</b>	ISO/IEC 18000-6:2010 (Manchester BAP), EPCglobal C1G2
<b>Operating Frequency</b>	902-928 MHz (North America); 865.6-867.6 MHz (Europe/India)
<b>Modulation</b>	Amplitude modulated forward link (reader to tag) Frequency modulated reverse link (tag to reader)
<b>Range</b>	Up to 100 meters (300+ ft); For best tag performance, Intellex recommends using circular polarized antennas with the reader (part number IA410.1)
<b>Battery Life</b>	Up to 4 years depending on use; data is persistent and also readable at close range upon battery expiration
<b>Data Rates</b>	8-128 Kb/sec forward link Up to 640 Kb/sec reverse link
<b>Data Retention</b>	10 years at 85°C

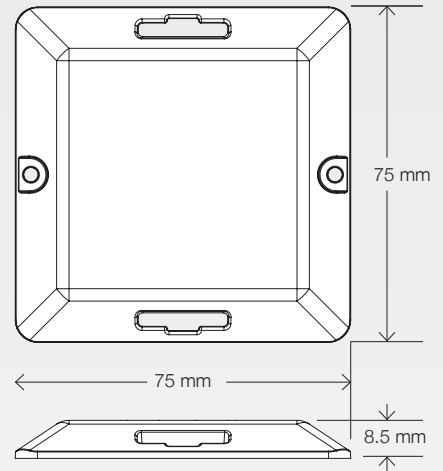
<b>Memory</b>	64 Kb total, 60 Kb rewritable non-volatile user memory	
<b>Environmental</b>	<b>Enclosure Protection</b>	IP67
	<b>Temperature (Operating and Storage)</b>	-4° to +140°F (-20° to +60°C)
	<b>Shock</b>	IEC 60068-2-32, test Ed
	<b>Vibration</b>	IEC 60068-2-6, test Fc
<b>General Dimensions</b>	2.95" x 2.95" x 0.33" (75 mm x 75 mm x 8.5 mm) (L x W x D), Weight: 32g	
<b>Other Features</b>	Password-controlled read, write, 1 Kb block level locking, and permalock	
<b>Mounting Options</b>	Screws, straps, adhesive; not included	
<b>Screw Type Options</b>	<b>Machine Screw</b>	Socket Head, Button Head or Pan Head Screws Recommended Holes Designed for 4-40 or M3 Screw Threads Recommended Minimum Screw Length: 5/16" (8.00 mm)
	<b>Wood Screw</b>	Standard #4 Wood Screw Recommended Round Head Recommended Recommended Minimum Screw Length: 5/16" (8.00 mm)
<b>Warranty</b>	The STT-8000 is warranted against defects in workmanship and materials for a period of two (2) years. See Terms of Sale for warranty details.	

**Ordering Information**

Part Number	Description
STT-8000	Standard asset tag; non-metal mounting; North America 902-928 MHz frequency range
STT-8000-EU	Standard asset tag; non-metal mounting; Europe and India 865-868 MHz frequency range

Specifications are subject to change without notice.

**Design**



**For More Information**

To learn more please visit our website or contact us directly. We look forward to hearing from you.

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