

**Rugged Tags® from Automated Assembly Corporation.**

**Rugged Tags®** for real life environments.

**Rugged Tags®** have been developed to meet the reliability requirements for the industrial and consumer marketplace. Manufactured with robust materials. **Rugged Tags®** are 100X more reliable than the standard conductive ink and glued RFID tags used in the marketplace today. Automated Assembly using ultra low moisture absorbing materials; 1,2,3or 5 mil Polyester, and ½ OZ copper circuitry. With our soldered interconnect, the **Rugged Tags®** pass Mil Spec thermal shock tests with ease. Thus giving certification for freezer operations down to tempters of -55C. Even an uncontrolled warehouse, our **Rugged Tags®** can endure temperatures up to 125C.

Automated Assembly has developed a process to make these **Rugged RFID Tags®**. Our 1,000ft robotic roll –to–roll manufacturing technology is targeted for high volume and lower cost assemblies. Our flex circuits have passed 2,000 hours of thermal shock, -55C to 125C with zero failures. If you need a tag that can actually go in the freezer and get back out to operational this technology is for you.

**Rugged Tag®** RTSL3ICS30415X166 is designed for UCODE applications in the 915 MHz to 2.45 GHz frequency range. The Rugged tag is constructed on 5 Mil Polyester, ½ Oz Copper, TTSOP8 IC package, with a soldered interconnect. Our **Rugged Tags®** have PSA adhesive on the base, a release liner, over-laminate with graphics on the top. This **Rugged Tag®** will handle sun, rain, sleet, and snow.

**SPECIFICATION SHEET: Part# RTSL3ICS30415X166**

Memory:	
Size (Bit)	2048
Write Endurance [Cycles]	100,000
Data Retention [Years]	10
Organisation	64 Block a` 4 bytes
RF-Interface:	
According to	ISO 18000
Frequency	UHF / 2.45 GHz
Baudrate [kbit/sec]	Up to 40
Anticollision	Adapted Binary Tree
Operating Distance [m]	Up to 7.0
Security:	
Unique Serial Number [byte]	8
Write Protection	Byte-wise
AFI	Yes



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**Rugged RFID Tags® can endure the conditions:**

- Rollers in the postal market.
- Pallets in the warehousing industry.
- Temperatures of the airlines
- Mechanically capable of handling higher G-forces.
- In and out of the freezer.
- Multi stacking with individual counting.
- Endures Mother Nature’s capabilities.

**www.autoassembly.com**

**# 952-469-6556**

**Reliable: Automated Assembly Corp’s Rugged Tags®.**