



Xtreme Tag® Retro

Cascade's Xtreme Tag Retro is ruggedized to protect your RFID-enabled data collection even in the harshest environments. This Ultra High Frequency (UHF) RFID tag allows you to collect key data on your container's use, so you can track and manage your assets with confidence. No tools or fasteners required for installation, since the Retro's clip engages the container's mounting surface to provide a robust attachment, minimizing labor costs for implementing your asset tracking solution.

MAKE YOUR CARTS **SMART** IN THE FIELD,
 IT'S AS EASY AS... **SNAP. SCAN. SERVICE.**

USES

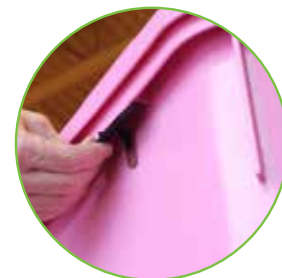
- Attach RFID tag to a container, assign it to a specific location
- Track waste and recycling participation rates
- Verify service
- Measure efficiencies of each of your routes

ADVANTAGES

- **Cost-effective:** no tools required for installation
- **Versatile:** fits under the rim of any injection molded cart
- **Rugged:** fully encapsulated, one piece RFID tag with the highest protection rating in the RFID industry at IP68

RELIABILITY

- Proven technology in use for waste and recycling since 2006
- Specifically designed to withstand extreme temperatures, seasonal weather, multiple impacts, and substantial vibration
- 10 year warranty





Xtreme Tag[®] Retro

PHYSICAL SPECIFICATIONS	
Tag Dimensions	3.4 L x 1.0 W x 0.16 H inches
Mounting Hole Diameter	0.21 inches
Weight	8 grams (0.02 pounds)
Encasement Material	Polypropylene, rigid
Attachment Method	Interference clip lock fit with spring clip
RADIO FREQUENCY (RF) SPECIFICATIONS	
RF Protocol	UHF, EPC Class 1 Gen 2, ISO 18000-6C
Operating Frequency	860 - 960 MHz (Global)
User Memory	0 bit
EPC Memory	128 bit
Read Range (Typical)	14 feet
Write Distance (Typical)	8 feet
ENVIRONMENTAL SPECIFICATIONS	
Operational Temperature	-40°F to 185°F
Application Temperature	-40°F to 320°F
Humidity	40% to 80% RH
UV Stabilization	10 Years
Chemical Resistance	Water, Motor Oil, Hydraulic Oil, Dish washing Detergent, Windex, Gasoline, Isopropyl Alcohol, Mineral Spirits, Acetone, Bleach, 409 Cleaner or Fantastic All Purpose Cleaner, Methyl Ethyl Ketone (MEK), Machine Oil
ENVIRONMENTAL & PERFORMANCE TESTING*	
Ingress Protection (IP) Rating	IP68
Thermal Shock I In Accordance with IEC 60068-2-14 Test Nb	-4°F to 185°F
Thermal Shock II In Accordance with IEC 60068-2-14 Test Na	-40°F to 158°F
Pressure Test	241 Bar Water Pressure Washer (3500 PSI Water Pressure Washer)
Steel Ball Impact Test	1.8 kg ball drop from 1.52 meters 5 times (4 pound ball drop from 5 feet 5 times)
Maximum Water Submersion Depth	2.5 miles

* Testing performed in an A2LA Accredited Laboratory

