



S O L S T I C E  
M E D I C A L

## MD<sup>3</sup>® RFID Tags Enabling Smart Medical Devices

Universal MD<sup>3</sup>® radio frequency tag technology is designed specifically for reusable medical devices and are durable to withstand the harsh rigors of sterilization and life cycle logistic processes. Implementing MD<sup>3</sup>® tags helps you automate tracking, creates unique device identification, and improves control of your valuable medical devices.

### High Performance

- Readable on metal at distances measured in feet vs. inches
- High heat durable, withstanding repeated autoclave cycles
- Biocompatible to ensure safety

### Maximum Flexibility

- Adaptable to a wide range of medical devices, including surgical instruments, surgical cases and surgical implants
- Small and available in multiple sizes
- Embedded or attachable configurations

### Global Standardized Technology

- Ultra High Frequency (UHF)
- EPC Global Compliant, Gen 2
- Anti-collision feature allows simultaneous reads of multiple tags
- Compatible with any Gen 2 reader system - maximizing utilization for a variety of manufacturing, supply chain, and surgical applications

Let us show you how MD<sup>3</sup>® tag technology facilitates broad, cost effective auto-id implementation and improves your medical device traceability, visibility, inventory, and regulatory control. Call us directly at 260-399-1641 or contact one of our certified channel partners on the web at [www.solsticemedical.com](http://www.solsticemedical.com).

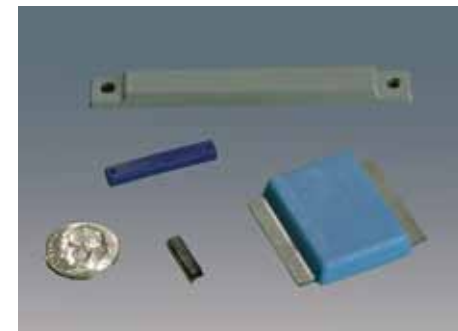
**IMPROVING THE DELIVERY OF HEALTHCARE™**

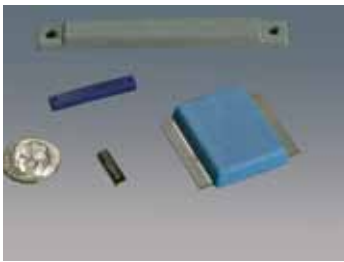
### Contact Information:

Solstice Medical, LLC • 3201 Stellhorn Rd • Fort Wayne, IN 46815  
260-399-1641 • [info@solsticemedical.com](mailto:info@solsticemedical.com) • [www.solsticemedical.com](http://www.solsticemedical.com)

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## MD3<sup>®</sup> RFID Tag Performance Specifications

- Medical grade construction
- Extended read distances on metal surfaces
- Autoclave safe through hundreds of cycles
- Small size form factor
- Custom sizes and colors available

		EPC Global Compliant Gen 2*
<b>Application</b>	Applications	Medical Devices
	Type	Rigid Silicone Overmold
	Mounting surfaces	Plastic, Metal
<b>Wireless Performance</b>	Operation Mode	Passive
	Frequency	UHF (860--960 MHz)
	Read Rate	More than 1500 tags per second
	Write Rate	15 tags per second
	Anti-collision	Reads Up to 20 Tags Simultaneously
	Memory	96-bit
	Security	32-bit Password Protected Kill Command
<b>Environmental</b>	Data Retention	100,000 Write Cycles, 50 Years
	Operating Temperature	-40C to +65C (-40F to +149F)
	Autoclave Survivability Temperature	135C (275F)
<b>Compliance</b>	Autoclave Survivability Cycles	1000
	RoHS	Yes
	FDA	USP Class VI
	FCC	FCC Part 15.231a

\* Specifications based on Solstice Medical laboratory testing and subcomponent specifications

Part Number	Protocol	Read** Distance	Attachment Method	Size (in.)	Size (mm)
100 161	EPC Global Compliant Gen 2	8 ft.	Rivet, Adhesive	3.2 x 0.4 x 0.2	82 x 10 x 5.1
100 093	EPC Global Compliant Gen 2	12 ft.	Rivet, Adhesive	1.3 x 1 x 2.4	33 x 25 x 6
100 208	EPC Global Compliant Gen 2	3-4 ft.	Rivet, Adhesive	1.1 x 0.18 x 0.11	28 x 4.5 x 2.8
100 209***	EPC Global Compliant Gen 2	4-12 in.	Adhesive	0.6 x 0.25 x 0.08	15 x 5.5 x 2

\*\* Minimum Read distance. Greater range may be obtainable based on the size, shape, and composition of subject attachment. Distance based on +30 dBm (1 watt) effective radiated power (+6dB circular polarization antenna -3 dB polarization loss -3 dB Cable Loss).

\*\*\* This tag is not meant for over mold if embedded in instruments  
Patents Pending

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