



Baton Antenna Lineup Overview

Ultrawide Baton Antenna

The Challenge

We set out to improve our already industry-leading omnidirectional antenna. We were committed to keeping it small, ruggedized, deployable and uniform while also drastically increasing performance and extending the frequency range.

Our Answer

Our 2nd-generation Baton Antenna lineup offers the finest wideband sensor for receiving RF signals. These new sensors were optimized using state-of-the-art genetic algorithms and electromagnetic simulation tools. Five frequency models are available:

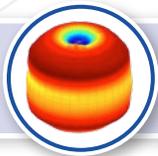
- ◇ **TS-2021-II:** 20 MHz–21 GHz
- ◇ **TS-2027:** 20 MHz–27 GHz
- ◇ **TS-2040:** 20 MHz–40 GHz
- ◇ **TS-2050:** 20 MHz–50 GHz
- ◇ **TS-0650:** 6 GHz–50 GHz
- ◇ **TS-2050S:** Set, TS-2027 & TS-0650

The impressive gain and efficiency of these antennas have been maximized to give the greatest omnidirectional sensitivity across their frequency ranges.

A perfect blend of performance and quality makes these units ideal for SIGINT and multiband communications applications. Complete with a ¼"-20 tripod mount on the base, the antennas are flexible enough for either permanent in-place monitoring or an on-the-go mobile system.

► Our 2nd-gen baton antenna has a space-conscious footprint but is big on performance. Optimized with genetic algorithms, it covers wider frequencies than ever.

▼ The TS-0650 is the newest addition to the baton family. Its miniature form factor packs a formidable range and can couple with its larger counterpart for a complete system. Shown to scale.



Antenna Patterns

See reverse for pattern plots.

Incredible bandwidth, exceptional performance and cost-effective for today's communication needs

Specifications	TS-2021-II	TS-2027	TS-2040	TS-2050	TS-0650
Antenna type	Modified biconical				
Frequency range	20 MHz–21 GHz	20 MHz–27 GHz	20 MHz–40 GHz	20 MHz–50 GHz	6 GHz–50 GHz
Impedance	50 Ω, nominal				
Antenna gain	+1 to +7 dBi, approx., above 230 MHz / –40 to +1 dBi, approx., below 230 MHz				–5 to +5 dB
Polarization	Vertical				
Pattern	Omnidirectional				
Max continuous power	10 W				
Connector	Type-N	SMA	2.92 mm	2.4 mm	2.4 mm
Housing	ABS and Acrylic				
Mounting	¼"-20 thread				
Dimensions	18.5 × 4.5 × 4.5 in				3.5 × 1.3 × 1.3 in
Weight	2.39 lb (1.08 kg)				1.24 oz (35 g)
Environmental	–31 to +185 °F (–35 to +85 °C)				



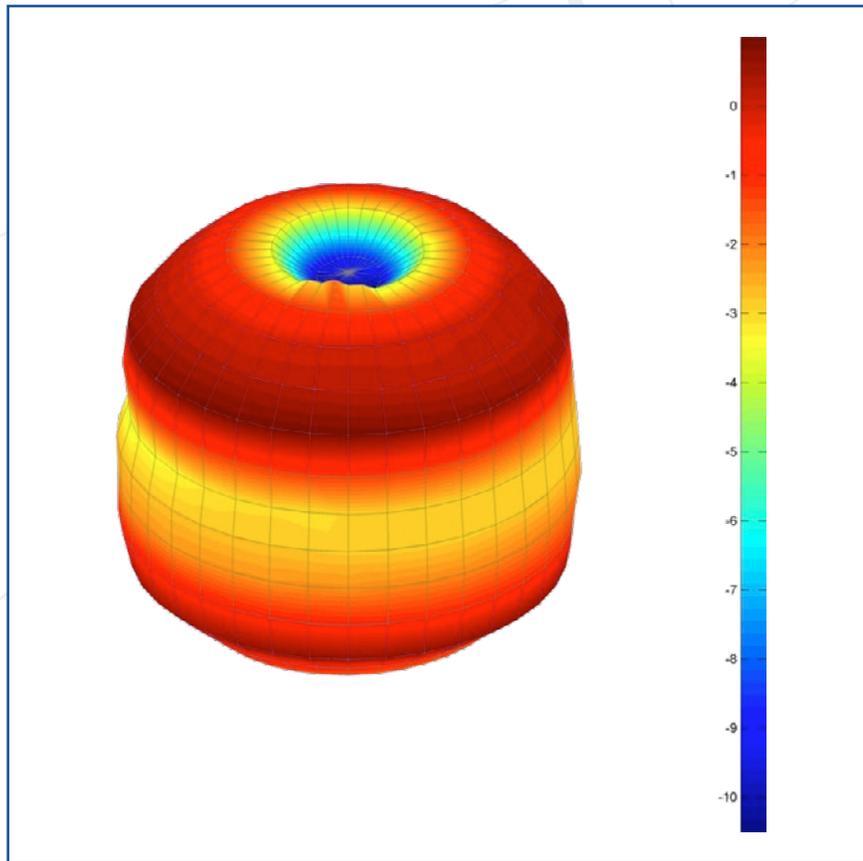
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To schedule a demonstration, or for more information, including pricing and availability on this or any of our products, [call](#), [e-mail](#) or visit us [online](#).



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TS-2021-II, Pattern at 1.05 GHz



TS-2021-II, Pattern at 18 GHz

