teamSENTINEL®



Wideband Fractal Omni Antenna, 150-6,000 MHz

Optimized for the teamSENTINEL family of RF sensors, this advanced single-band antenna utilizes fractal geometry to deliver consistent high gain performance across an extreme 40:1 frequency bandwidth (150 to 6,000 MHz). Packaged as a highly compact circuit board, the fractal antenna is designed to fit into the transit case lid of a teamSENTINELnano $^{\text{\tiny TM}}$ V/U/SHF wideband sensor. Polarization (vertical or horizontal) of the omnidirectional antenna response can be affected simply by reorienting the rectangular element between portrait to landscape.

Extreme wideband frequency coverage, combined with compact and versatile packaging, make this an ideal monitoring antenna for the transportable teamSENTINEL family of wideband V/U/SHF interactive recording sensors.

Q	Purpose-built for the teamSENTINEL
	family of wideband RF sensors

Extreme Frequency Bandwidth Ratio of 40:1 (Mid-VHF through C-band range)

Conveniently housed in the lid of the teamSENTINELnano transit case

Lightweight, portable

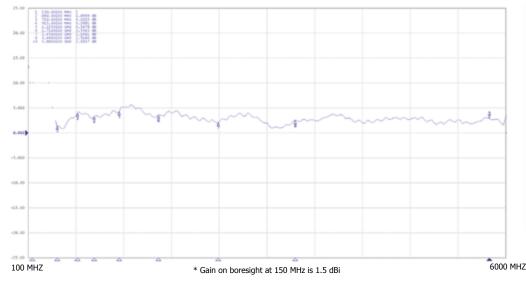
Quick Deployment



Patents pending and US patents 659862, 6	6985122, 7345642 and 7659862
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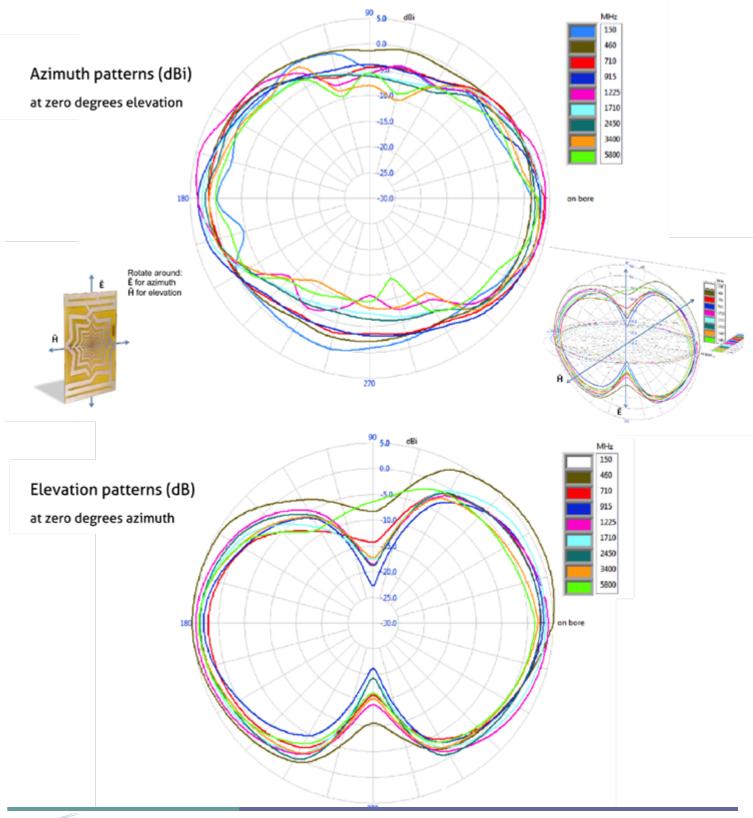
SYSTEM SPECIFICATIONS Full Performance Range 150-6,000 MHz Antenna Center Frequency 3,075 MHz Frequency Bandwidth Ratio 40:1 Nominal Gain 5 dBi, boresight VSWR (Typical) ≤ 3:1 Nominal Impedance 50 Ω Reduced Performance Range 100-150 MHz Antenna Response Pattern Omnidirectional around axis Polarization in Portrait Mode Linear, Vertical Polarization in Landscape Mode Linear, Horizontal **Dimensions** 19.25" x 13.5" x 0.062" SMA (female) Connector Temperature Range -30 to +70 deg C

Boresight Gain* (dbi)



Exceptional Wideband Performance

Typical gain performance of 5 dBi± can be expected from ~150 MHz up to 6 GHz, allowing a single antenna to effectively cover a frequency range that would otherwise require multiple traditional antennas.





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