**For Immediate Release**

**Antenum introduces BeamPRO**

**The First Analog True Time-Delay Beamformer**

Denver CO 6/21/2022

Antenum Inc announces today the rollout of BeamPRO at the IMS Show in Denver.

BeamPRO is totally new form of beamformer. It is virtually all-analog and passive and uses the first true time-delay beamforming technology. The revolutionary design eliminates all power dividers and phase shifters and other RF components.

Being analog nature means that BeamPRO’ s time delays are fully controllable with essentially infinite variability. The result is true analog beam positioning with no discrete steps and no phase or amplitude distortion.

The passive and dielectric nature of BeamPRO results in ultra-high efficiency and power handling that is only limited by dielectric breakdown voltage. HOT control is also possible with beam repositioning able to be done at power, while its dielectric nature results in a very low noise temperature.

BeamPRO eliminates the need for phase shifters, power dividers, combiners, and transmit/receive switches. There are no moving parts and the device interfaces directly with the RF chain including power amp and LNA. The result is a higher performing, lighter, more compact, more power efficient and much lower cost system. “This breakthrough design not only results in super high performance”, said Bob Senior, VP of Business Development at Antenum, “it also enables a much lower cost solution. Not to mention that the SWaP-C is simply unparalleled.”

The totally passive and analog nature of BeamPRO means that beam repositioning speed is not a function of the speed of RF switching components. As such, BeamPRO ’s beam repositioning speed can be in low nanoseconds thus allowing for Time Domain Beamforming and increased spectral efficiency..

BeamPRO technology is covered by 12BeamPORO issued and three pending U.S. and International patents.

**Antenum**

Antenum Inc is an innovative antenna maker bringing its patented antenna designs to the Automotive, Military, Aerospace, SatCom and Cellular markets. Based in Merrimack NH, it has sales offices in Tokyo, Barcelona, Beijing, and Taipei. The Company offers groundbreaking conformal antenna systems for vehicles and has recently announced the introduction of BeamPRO, a totally passive, analog time-delay beamformer. Founded by veterans of the defense industry, Antenum is dedicated to bringing radically improved antenna systems to market in both the commercial and defense arenas.

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