**For Immediate Release**

**Antenum introduces CALPRO**

**Industry’s Most Compact, Conformal, Multiband Vehicle Antenna**

Denver CO 6/21/2022

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

Multifunctional CALPRO sets a new standard for automotive antennas—a true breakthrough in size, function, and integration options. CALPRO combines up to 10 connected-car antenna functions, with the benefit of being conformal and hidden beneath the roof of the vehicle.

CALPRO is a broadband array covering functions requiring frequencies ranging from 617MHz to 6.0GHz. The system provides for all the vehicle’s critical RF needs from 4G LTE, 5G (sub-6), 2X2 and 4X4 MIMO, WiFi/BT and Tri-Band GNSS navigation.

CALPRO can also be configured to support either 2X2 or 4X4 MIMO without having to space out antenna elements, as is the case with conventional antennas.

“You may have seen newer cars with two antenna modules spaced out on the roof of a vehicle. This is how traditional antennas need to get positioned to optimize their MIMO performance”, said Bob Senior, VP of Business Development at Antenum. “CALPRO offers superior MIMO performance to that with antennas in a package as small as 5 inches by 5 inches—embedded under the roof.”

CALPRO’s superior MIMO performance comes from its directionality and strong beam isolation. This contribution to the link budget delivers the increased probability of reception, extreme throughput, and low latency required to enable assured safety services and rich real time data.

CALPRO may be installed in a number of locations in a car. It is small enough to fit into the rearview mirror module. It can also be placed flush with a metal roof or produced in a rectangular form allowing it to fit into the car’s C header. Finally, as no ground plane is needed, it can be installed into a plastic spoiler with equally good results.

CALPRO is a volumetric antenna that can be produced in a variety of sizes and shapes. The system’s gain is a function of the volume of the box among other factors. Units to date have ranged from a square 5X5” model .75” deep, to a 6.25X6.25” that is 1” deep. A unit has also been designed in rectangular form. Samples are available in the third quarter.

CALPRO is covered by four 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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