Cellular/GPS Dual-System Antennas

Antenna Specialists, an Allen Telecom company, expanded its Tele-Locator&#153 line of dual-system cellular/GPS antennas to include roof top and trunk lid mounting options. These dual-system antennas combine active GPS location identification with broadband cellular for complete frequency coverage without tuning. The GPS engine includes a weatherproof ultrasonic seal to protect against extreme weather conditions.

A single cellular/GPS antenna is a cost-effective solution where service providers have added GPS positioning to existing cellular services. Ideal for transit, construction, police and emergency vehicles, applications range from enhanced E9-1-1 cellular solutions to tracking programs for fleet equipment also needing nationwide cellular service.

The ASPD1860TGPS roof top model stands 13.1 tall with a high performance 5/8 wavelength upper whip over 1/4 wave lower section delivering 3 dBd omnidirectional gain. The antenna may be installed using an existing 3/4 hole.

The ASPD914TGPS trunk lid antenna is made of flexible plated steel cable with a highly durable plastic cover. This unity gain antenna has a 3.2 (8.1 cm) whip and requires a ground plane. It also has a black ABS radome and installs easily without drilling.

Both antennas cover the 824-894 MHz cellular and the 1575.42 &#1775 MHz GPS frequency range with a cellular VSWR of &lt2:1 and &lt1.5:1 for GPS. The cellular band has vertical polarization, omnidirectional H-plane, operates at 70 MHz and handles up to 10 watts of power. GPS coverage has a typical 27 dB gain, 1.2 dB noise, output VSWR of 2:1, 3.0 or 5.0 volts of dc Bias, 25 mA of current, RHCP polarization, operates at 10 MHz and handles up to 1 watt of power.

The antennas ship with 15 ft (4.6 M) of PRO-FLEX&#153 PLUS low loss cable and a TNC male connector for cellular installations, along with a 15 ft (4.6 M) RG-174/U cable with a SMA male connector for GPS and both require 3.9&#215 1.8 (9.9 cm &#215 4.6 cm) for mounting.

Source URL (retrieved on *05/23/2013 - 6:43am*):
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