

Tallysman Introduces New Smart Antenna



Tallysman, Canada, has introduced the TW5340 smart antenna. This antenna pairs Tallysman's Accutenna technology antenna with STMicroelectronics'™ Teseo II receiver. This combination makes this smart antenna among the most accurate smart antennas for use in any environment, including urban canyons.

The TW5340 is a multi-constellation GNSS Smart Antenna which provides simultaneous GPS/GLONASS/SBAS reception. It is designed for use in professional grade applications such as precision timing, network synchronisation, low current applications, and tracking/positioning applications.

To illustrate the advantages of this technology coupling, simultaneous recordings of vehicle position using two smart antennas, one with and one without Tallysman's Accutenna technology, in an area of downtown Ottawa, Canada, notorious for high levels of multi-path signals, was conducted. Results show how the high multi-path signal rejection capabilities of Tallysman's Accutenna technology significantly improves accuracy.

The TW5340 supports ST Microelectronics Autonomous A-GPS which accelerates GPS positioning by predicting satellite ephemeris data based on previous observations. This results in extremely fast Time-To-First-Fix.

Specifications

The smart antenna can be configured to output up to three NMEA 0183 message lists with navigation update rates up to 10Hz. RS232, CMOS and USB interfaces are available with input voltage options of 3.3V, 5.0V and 12V. The standby mode feature provides for very low current consumption (<100uA) and is particularly useful in battery operated applications, like trailer tracking.

A standard one pulse-per-second 1PPS synchronised to UTC time is available as a single ended output or as a differential output at RS422 levels. Tallysman's Windows based Configurator enables simple configuration of parameters such as baud rates, output message rates, constellation, tracking parameters, 1PPS configuration and standby mode parameters.

The TW5340 is housed in an IP67 housing and is REACH and ROHS compliant. A non-magnetic version is also available as part number TW5341.