

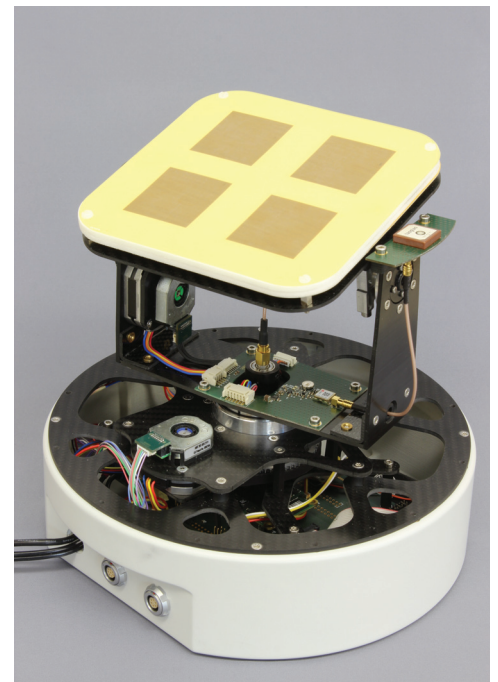
GNSS - TRACKING ANTENNA SYSTEM

GENERAL

Operating unmanned aerial vehicles requires communication solutions with increased performance and reduced unwanted interference. Future missions in the areas of public safety, industrial inspection as well as for precision agriculture particularly demand a reliable long-distance and high-speed data connection.

Experts at the AIT Austrian Institute of Technology and Pidso have developed a directive antenna system consisting of a tracking antenna and a base station. Pidso's advanced GNSS Tracking Antenna System (gTAS) is providing this stable connection through sophisticated tracking algorithms and a precise, directive antenna design. Due to its plug and play feature, easy and fast deployments in the field are guaranteed. The antenna system is fully integrated in the AIT base station for advanced mission planning and execution.

- ▶ Light-weight, low-power, long-range, fully autonomous, tracking system
- ▶ Supporting different antennas / frequencies
- ▶ Line of sight, two-axis (az-el) gimbal platform
- ▶ GNSS (GPS/GLONASS) aided tracking
- ▶ Onboard eCompass and WMM2015 world magnetic model
- ▶ Onboard GNSS active antenna and receiver
- ▶ Integration in base station



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