
Description: Worldwide drone transponder markets are poised to achieve significant growth with the need to achieve protected airways. The simplest way to protect against mid-air collisions is to require the use of ADS-B transponders on all aircraft. Transponders can turn an uncooperative environment into a cooperative environment.

Transponders provide location and positioning information about smart commercial drones. These drones have a computer inside, they are easy to fly, remotely maneuverable, have a camera, and contain sensor logic. Smart drones are evolving computer driven collision avoidance technology making the flying more reliable.

Remote operation occurs in the context of a workflow and sensors. Cameras are improving dramatically to permit management of video and picture taking that is realistic and detailed. Drone actuators, drone transponders, are needed to support drone package delivery. This is a huge new market that speeds economic development, makes it easier for the middle class to both work, and purchase lifestyle items and food efficiently.

Drones based on aerial robotic platform technology can be used to make deliveries to each person's home, landing on the back doorstep, leaving packages in a locked box. The drone package delivery technology has reached a level of maturity that bodes well for market development. Drone systems are mature enough to be at the forefront of aerospace manufacturing.

Dronecode is an independently funded software project that harnesses the power of collaborative development. The aim is to fuel innovation across drone industries and ecosystems. Dronecode Foundation is a nonprofit organization working on a common, shared open source platform for Unmanned Aerial Vehicles (UAVs). Dronecode brings together existing and future open source UAV software projects.

APM UAV software platform was developed by 3DRobotics. 1,200 developers are working on Dronecode's six projects focused on maximizing adoption of the project's cost-effective, reliable and technologically advanced UAV software.

Micro-Avionix has an ultra-lightweight low cost ADS-B transponder for UAS. Micro-Avionix has developed an ADS-B suitable for UAVs of all sizes to improve flying safety for all. The ping™ is a family of ultralight weight, low cost, ADS-B transponders.

Weights range from 1.5 to 30 grams, delivering a variety of types of performance. The ping2020™, for instance, is capable of IN on both 1090ES and 978UAT, and OUT on 978UAT. The products are fully compliant with the minimum performance standards of DO-282B Class A1S. Micro-Avionix has developed an ADS-B suitable for UAVs of all sizes to The ping™ is among the world's first families of ultralight weight, low cost, ADS-B transponders.

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