

Drones and Saelig

Drones are flying machines, defined as unmanned aerial systems vehicles (UAS/V) used for delivery of payloads both commercial and military, or even for inspection of power lines and wind turbines. While the commercial drone market is still fairly young, drones are used in a wide variety of applications, such as asset integrity & inspection, surveying, safety, agriculture, research, energy, security, sports, news, and increasingly for warfare.



What products does Saelig offer for this market?

Design: we carry superior long-range wireless modules from [Circuit Design](#) and [Airwave Technologies](#), as well as GPS antennas. Multi-channel modules enhance product reliability and competitiveness with radio links that are high quality, reliable narrow band products.



EMI/EMC Testing: EMC compliance testing is essential to make sure the drone is not radiating unwanted signals, not subject to incoming radiation. Electro-magnetic interference (EMI), also called radio-frequency interference (RFI) when in the radio frequency spectrum, is interference generated by an external source that affects an electrical circuit by electromagnetic induction, electrostatic coupling, or conduction. The interference may subdue/mitigate the performance of the drone's circuitry or even prevent it from functioning. Both human-created and natural sources generate varying electrical currents and voltages that can cause Electro-Magnetic Interference in ignition systems, mobile phone cellular networks, lightning, and auroras (northern/southern lights).



Susceptibility is the tendency of electrical equipment to malfunction or break down in the presence of unwanted RFI emissions.

A controlled, EMI-quiet environment enables such testing; our Faraday boxes and tents from Ramsey, Select Fab, and TekBox fit this need.

Other Testing: battery life can be determined using GW Instek's range of battery testers and electronic loads. Overall durability can be evaluated with various test instruments such as oscilloscopes and spectrum analyzers available on our website from manufacturers such as Siglent, Rigol, AIM-TTi, and TekBox.



Call our Tech Support staff to discuss what is needed for your drone application!



Saelig
UNIQUE ELECTRONICS
888-7-SAELIG

The best in world-wide unique electronics

USA, Canada, Mexico, UK, France, Germany, Italy, Spain, Portugal, Greece, Turkey, India, China, Japan, Korea, Singapore, Malaysia, Thailand, Vietnam, Philippines, Indonesia, Australia, New Zealand, South Africa, Brazil, Argentina, Chile, Peru, Colombia, Venezuela, Ecuador, Panama, Costa Rica, Guatemala, Honduras, Nicaragua, El Salvador, Cuba, Haiti, Dominican Republic, Puerto Rico, Mexico, USA