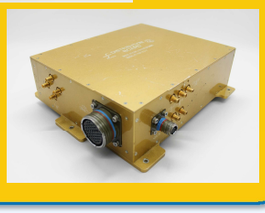
Autonomous Desert Landing System in Adverse Weather Condition

"Innovative Solutions for a Connected Future"









The millimeter wave sensor payload, comprising five range sensors and one four-channel drift sensor, is designed to facilitate the safe landing of a helicopter in desert environments under brown-out conditions. The integrated Controller and Interface Module processes the sensor data and provides real-time range and drift information of the helicopter to the pilot through the display module

Key Features

- Range : 100m down to 5m
- Mode of operation : FMCW
- Range resolution : 10 cm or better
- Velocity resolution : 0.3 m/sec
- Update rate : 25 Hz or better
- Temp. Range : -30 Deg C to +55 Deg C
- EMI/EMC : MIL-STD-461E

Applications

- Helicopter Landing Assistance in Degraded Visual Environments (DVE)
- Terrain Mapping Beyond Visual Range (BVR) under Adverse Environmental Conditions.
- Milli-meter wave Imaging

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