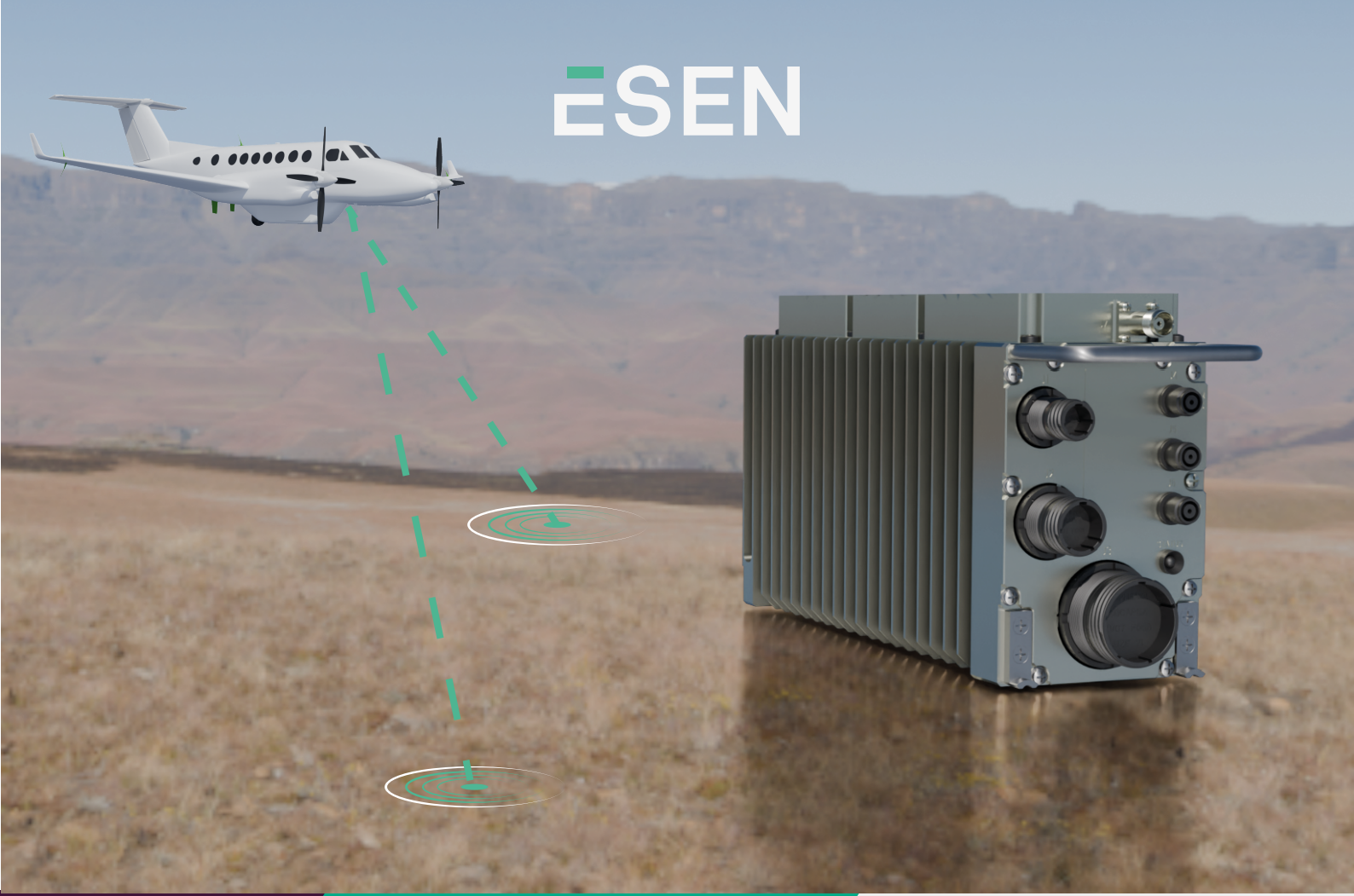


The logo for ESSEN, featuring a green horizontal bar above the letter 'E'.

# RNE

## RADIO NAVIGATION EQUIPMENT

[www.esensi.com.tr](http://www.esensi.com.tr)

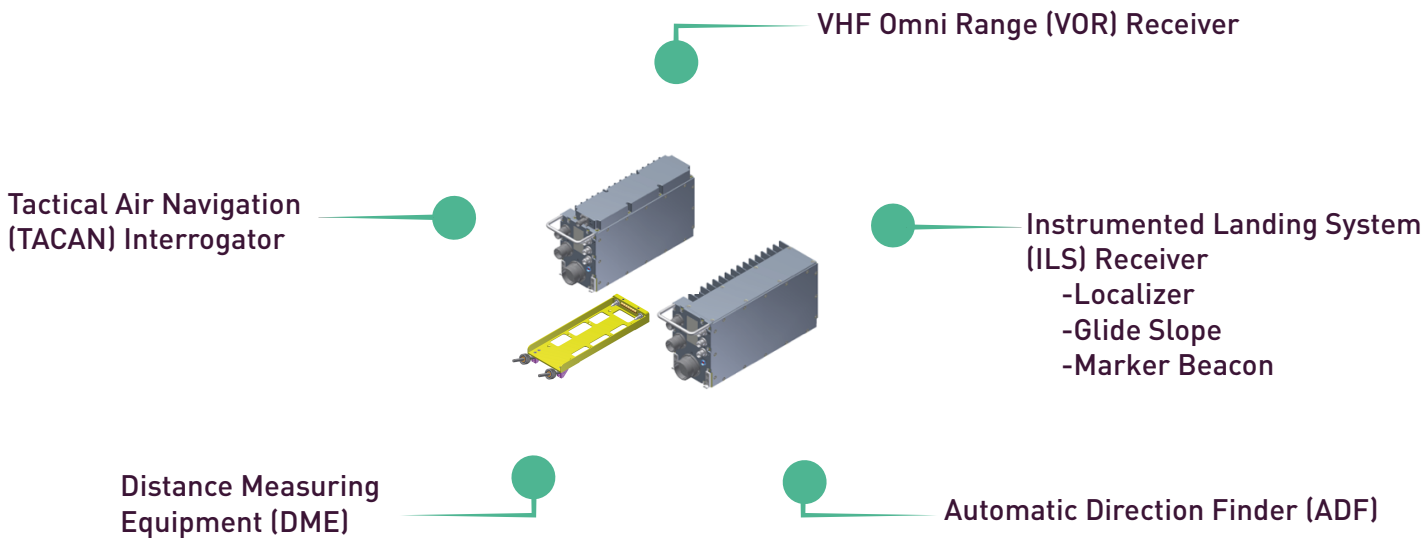
# Radio Navigation Equipment

The Radio Navigation System is a high performance, precision navigation solution specifically developed for integration into civilian and military aircraft, ensuring accurate positioning and reliable guidance in all operational environments.



## Multimode Airborne Navigation System

- All In One
  - VOR/ILS/MB Receiver
  - DME/TACAN Receiver/Transmitter
  - ADF Receiver
- Configurable
  - VOR/ILS, Multichannel DME/TACAN and ADF functions can be provided separately or combined
  - Same Mounting Tray can be used to install different RNE configurations.
- SWaP-C Optimized
  - Optimized to fit many platforms
- Navigate Better
  - DO-178C and DO-254 compliant



# Applicable Standards and MOPS

| Standards | VOR          | MB           | ILS LOC      | ILS GS       | ADF         | DME         |
|-----------|--------------|--------------|--------------|--------------|-------------|-------------|
| RTCA      | D0-196       | D0-143       | D0-195       | D0-192       | D0-179      | D0-189      |
| EUROCAE   | ED-22B       | WG7          | ED-46B       | ED-47B       | ED-51       | ED-54       |
| EASA      | ETSO-2C40c   | ETSO-2C35d   | ETSO-2C36f   | ETSO-2C34f   | ETSO-2C41d  | ETSO-2C66b  |
| ARINC     | ARINC 711-10 | ARINC 711-10 | ARINC 710-10 | ARINC 710-10 | ARINC 712-7 | ARINC 709-8 |

| Standards | TACAN        |
|-----------|--------------|
| MIL-STD   | MIL-STD-291C |
| STANAG    | STANAG 5034  |

Multichannel DME/TACAN (provides bearing, distance and station identification for up to four ground stations)

- Interfaces
  - ARINC-429
  - MIL-STD-1553B
  - Discrete
  - Audio
  - Maintenance (RS-485)
- Environmental Qualification
  - DO-160G
  - MIL-STD-810G
  - Temperature and Altitude
    - Operational: -55°C / +70°C @ 55.000 ft.
    - Storage: -55°C / +85°C
- SWaP-C
  - Dimensions including Handle (HxWxD): 90 mm (E) x 150 mm (B) x 295 mm (D)
  - Weight (including Mounting Tray) < 4 kg
  - Supply Voltage (Primary and Secondary Inputs): 28 VDC
  - Power Consumption: 33 W





# RNE

RADIO NAVIGATION EQUIPMENT

## ESEN

Titanyum C Blok Kat:2 ODTÜ Teknokent  
06800, Çankaya, Ankara/ Türkiye

T: (+90) 312 220 14 88  
F: (+90) 312 220 14 89

[www.esensi.com.tr](http://www.esensi.com.tr)

