

# KILAVUZ-1 TG-IMU

TACTICAL GRADE MEMS INERTIAL  
MEASUREMENT UNIT

MEMS GYROSCOPES  
MEMS ACCELEROMETERS





# KILAVUZ-1 TG-IMU

## TACTICAL GRADE MEMS INERTIAL MEASUREMENT UNIT

### Applications

- Guidance and Positioning
- EO/FLIR/Camera/Radar Stabilization
- Short Range Missiles
- UAV

### Main Features

- 3 MEMS Gyroscopes
- 3 MEMS Accelerometers
- Synchronous RS-422 SDLC Protocol
- ITAR Free

### Technical Specifications

- Gyroscope Operating Range :  $\pm 300$  °/s
- Accelerometer Operating Range :  $\pm 20$  g
- Gyroscope Bias Instability : 5 °/hr
- Accelerometer Bias Instability : 0.5 mg
- Gyroscope White Noise (ARW) : 0.15 °/ $\sqrt{\text{hr}}$
- Accelerometer White Noise (VRW) : 250  $\mu\text{g}/\sqrt{\text{Hz}}$
- Data Rate : 400 Hz
- Dimensions : 43.1 mm x 47.9 mm x 48 mm
- Input Voltage : +5 VDC,  $\pm 15$  VDC

### Environmental Conditions

- Environmental Spec. : MIL-STD-810F

