



TRL 16M

High Accuracy Tactical Grade
Inertial Measurement Unit





TRL 16M

High Accuracy Tactical Grade Inertial Measurement Unit

GENERAL

IAI's TAMAM Division, specializes in the development and manufacturing of inertial sensors and inertial navigation systems. TAMAM is considered a national center of excellence in its field, and is one of the world's leading inertial design and manufacturing centers. Building on its heritage, TAMAM provides its customers with the most accurate, up-to-date and cost effective inertial based PNT solutions.

TRL-16m is an accurate, compact and lightweight inertial measurement unit. TRL products are most suitable for a variety of stabilization and orientation applications for aerial, naval and ground uses. The TRL has a proven operational record, with thousands of systems fielded on platforms worldwide including fixed wing, rotor craft, unmanned aerial systems, guided munitions, missile systems and more.

HIGHLIGHTS

- High performance stabilization for flight control and guidance applications
- Lightweight & compact inertial measuring system
- Full operation in GPS-denied conditions
- Based on IAI's inertial sensors (RLG and accelerometers)
- ITAR free

PARAMETERS

	Bias accuracy [1 σ]	0.1°/hr	0.5°/hr
Gyroscope channel	Scale factor accuracy [1 σ]	50 ppm	100 ppm
	Random walk [max]	0.03°/√("hr")	0.1°/√("hr")
Accelerometer channel	Bias accuracy [1 σ]	0.1 mg	1 mg
	Scale factor accuracy [1 σ]	200 ppm	700 ppm
	Random walk [max]	0.05 m/sec/√("hr")	0.1 m/sec/√("hr")

CHARACTERISTICS

Power per MIL-STD-704A	12 W max.
Communication Interfaces	RS485, UART, SDLC (Optional)
Size (excluding flanges and connectors)	117 mm (L), 115mm (W), 110mm (H)
Weight	1.7 kg
Environmental Conditions	MIL-STD-810F and MIL-STD-461E
Operating Temperature	-40°C to +71°C

08.26



TAMAM DIVISION
WWW.IAI.CO.IL
INFO_TMM@IAI.CO.IL