



## MIMU

### BS-IU11-M-D6EC

## MEMS Inertial Devices and Systems

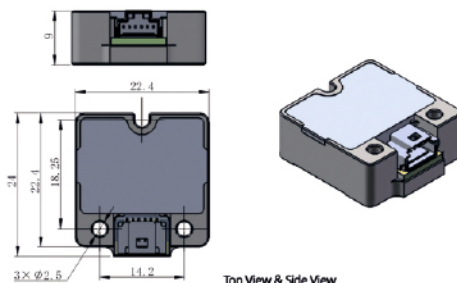
- ◇ Based on MEMS process
- ◇ Digital Gyros & Accelerometers
- ◇ High Speed Processor Embedded
- ◇ Compensation & Calibration
- ◇ Low power, Small Size
- ◇ High Tolerance

	Parameter	BS-IU11-M-D6EC
Gyro Performance	Range	±250 °/s
	Bias in Full temperature	≤0.1 °/s
	Bias Stability(1σ, 10s on average)	≤15 °/h
	Bias Repeatability(1σ)	≤15 °/h
	Angular Random Walk	≤0.3 °/√Hr
	Scale Factor Non-linearity	≤100 ppm
	Installation Error	≤ 0.7 °
	Bandwidth	≥100 Hz
Accelerometer Performance	Range	±4 g
	Bias in Full temperature	≤2.5 mg
	Bias Stability(1σ, 10s on average)	≤0.3 mg
	Bias Repeatability(1σ)	≤0.3 mg
	Scale Factor Non-linearity(±1g)	≤300 ppm
	Installation Error	≤ 0.7 °
System Performance	Bandwidth	≥100 Hz
	Refresh Rate	200 Hz
	Weight	≤25 g
	Size	24 mm×22.4 mm×9 mm
	Supply Voltage	5±0.3 V
	Power Consumption	≤0.25 W
	Interface	UART
	Connector	Molex
	Operating Temp.	-40 °C~+85 °C
Storing Temp.	-40 °C~+95 °C	

### ◇ Applications

- Integrated Navigation Systems & Inertial Guidance Systems
- Flight Control & Guidance Systems
- Attitude Heading Reference Systems (AHRS)
- Stabilization of Antennas, Cameras & Platforms

### ◇ Structure (unit:mm)



ID	Symbol	Note
1	VCC(+5V)	Power Positive
2	GND	Power Ground
3	TXD	Transmit
4	RXD	Receive
5	-	-
6	-	-

Definition