MEMS INERTIAL CHIP AND MODULE

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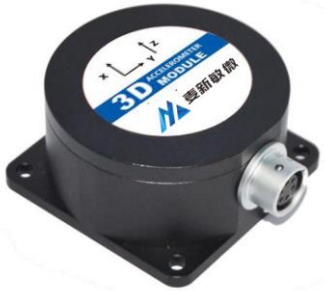
ACM-100/200/300
INDUSTRIAL GRADE

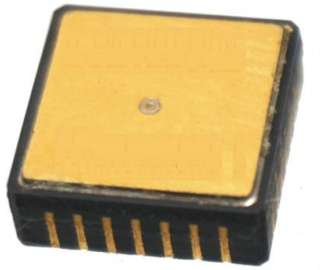
MEMS Accelerometer Chip and Module



Measuring Range	±2/±8/±40g
Measuring Axis	X, Y, Z
Zero Bias Stability (10s, 1σ)	1.5/7.5/22mg
Zero Bias Temperature Coefficient (full temperature)	0.1/0.5/1.5mg/℃
Resolution	1/5/15mg
Impact Resistance	20000g,2ms,1/2 sine
Anti-Vibration	10grms,10~1000Hz
Communication Protocol	Rs232/Rs485/Rs422/TTL/CAN
Output Signal	Digital/Analog(current/voltage)
Pack and Size	Shell, 60*59*29mm
Weight	180g

ACM-1200
INDUSTRIAL GRADE

MEMS Accelerometer Chip and Module



Measuring Range	±10/±15/±20g
Measuring Axis	Z
Zero Bias Stability (10s, 1σ)	100mg
Zero Bias Temperature Coefficient (full temperature)	3mg/℃
Resolution	0.3/0.4/0.5mg
Impact Resistance	20000g,2ms,1/2 sine
Anti-Vibration	10grms,10~1000Hz
Communication Protocol	I^2C/SPI/UART
Output Signal	Digital/Analog(current/voltage)
Pack and Size	Chip, 9*9*2.8mm
Weight	1.5g

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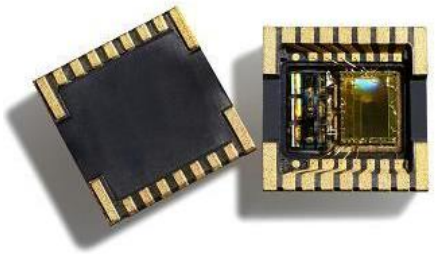
ACM-1900-A/B/C/D
TACTICAL GRADE

MEMS Accelerometer Chip and Module



Measuring Range……±2~10/±30~50/±70~100/±150~200g
Measuring Axis……X
Zero Bias Stability (10s, 1σ)……20/50/150/250μg
Zero Bias Temperature Coefficient (full temperature)……10/50/100/200μg/℃
Resolution……5/10/25/50μg
Impact Resistance……20000g,2ms,1/2 sine
Vibration Rectification Error (6grms)……0.4/0.15/0.05mg
Communication Protocol……I^2C/SPI/UART
Output Signal……Digital
Pack and Size……Chip, 9*9*2.8mm
Weight……1.5g

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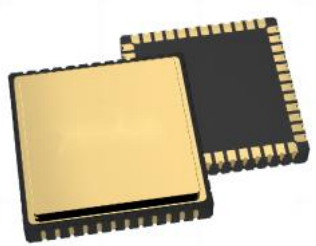
MG-101/102
TACTICAL GRADE

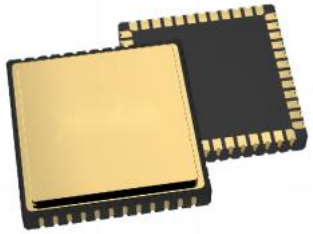
MEMS Gyroscope Chip and Module



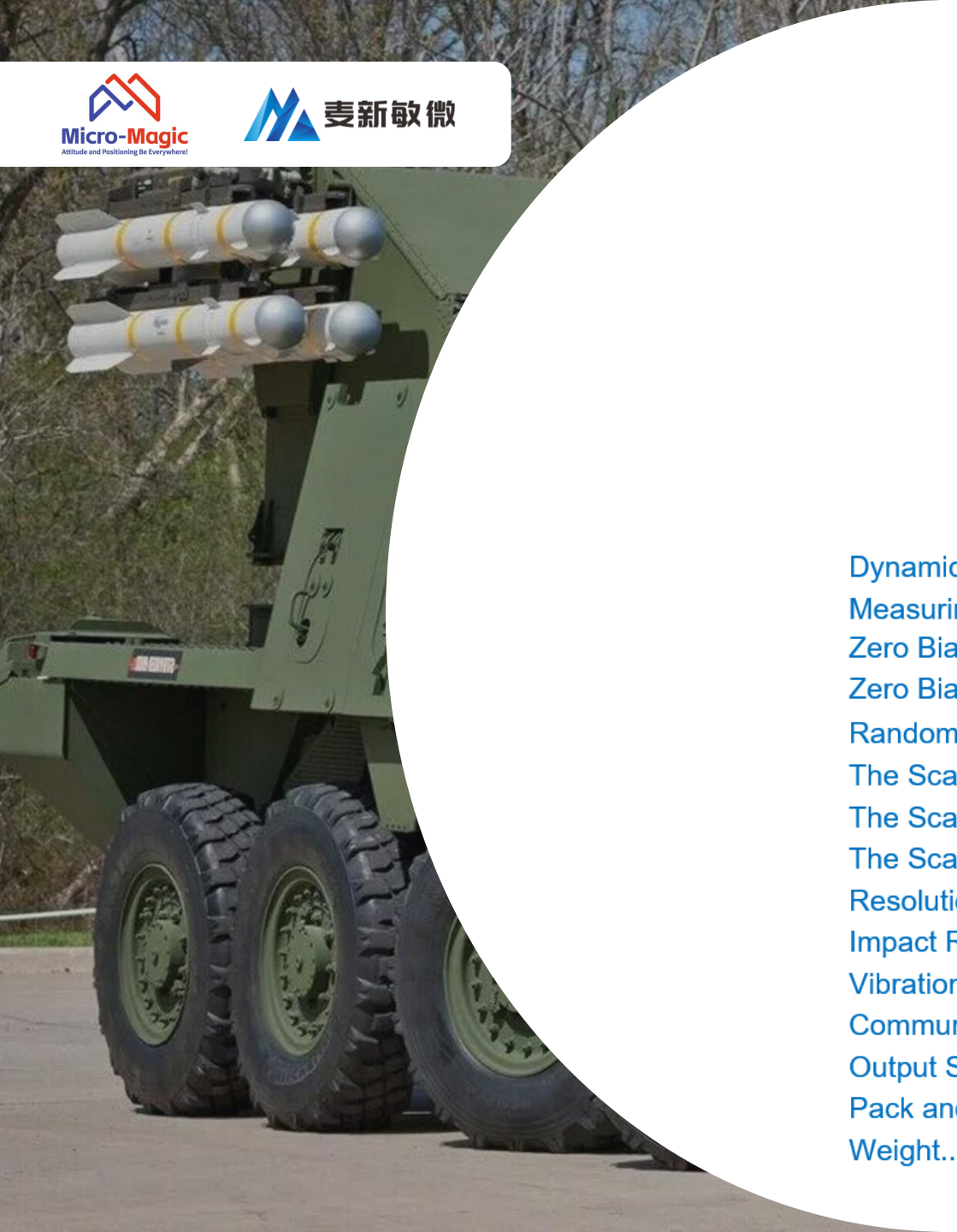
Dynamic Range	±100°/s
Measuring Axis	X or Y
Zero Bias Stability (10s, 1σ)	0.1°/hr
Zero Bias Repeatability (1σ)	0.1°/hr
Random Walk Coefficient	0.005°/√h
The Scale Factor of Nonlinearity	200ppm (1σ)
The Scale Factor of Repeatability	50ppm (1σ)
The Scale Factor of Temperature	300ppm (1σ)
Resolution	24bits
Impact Resistance	10000g,10ms,1/2 sine
Vibration Conditions	18grms, 20~2000Hz
Communication Protocol	I^2C/SPI/UART
Output Signal	Digital
Pack and Size	Chip, 11*11*0.3mm
Weight	1.5g

MG-401/402/403
TACTICAL GRADE

MEMS Gyroscope Chip and Module



Dynamic Range	±400°/s
Measuring Axis	X or Y
Zero Bias Stability (10s, 1σ)	1/1/0.5°/hr
Zero Bias Repeatability (1σ)	1/0.3/0.3°/hr
Random Walk Coefficient	0.05/0.05/0.025°/√h
The Scale Factor of Nonlinearity	200/300/100ppm (1σ)
The Scale Factor of Repeatability	100/50/50ppm (1σ)
The Scale Factor of Temperature	500/300/100ppm (1σ)
Resolution	24bits
Impact Resistance	10000g,10ms,1/2 sine
Vibration Conditions	18grms, 20~2000Hz
Communication Protocol	I^2C/SPI/UART
Output Signal	Digital
Pack and Size	Chip, 11*11*0.3mm
Weight	1.5g



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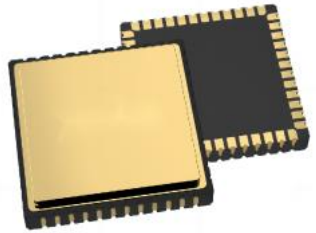
MG-501/502/503
TACTICAL GRADE

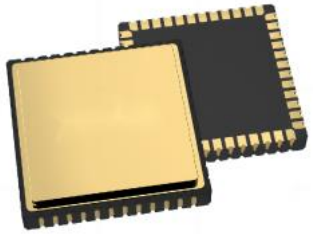
MEMS Gyroscope Chip and Module



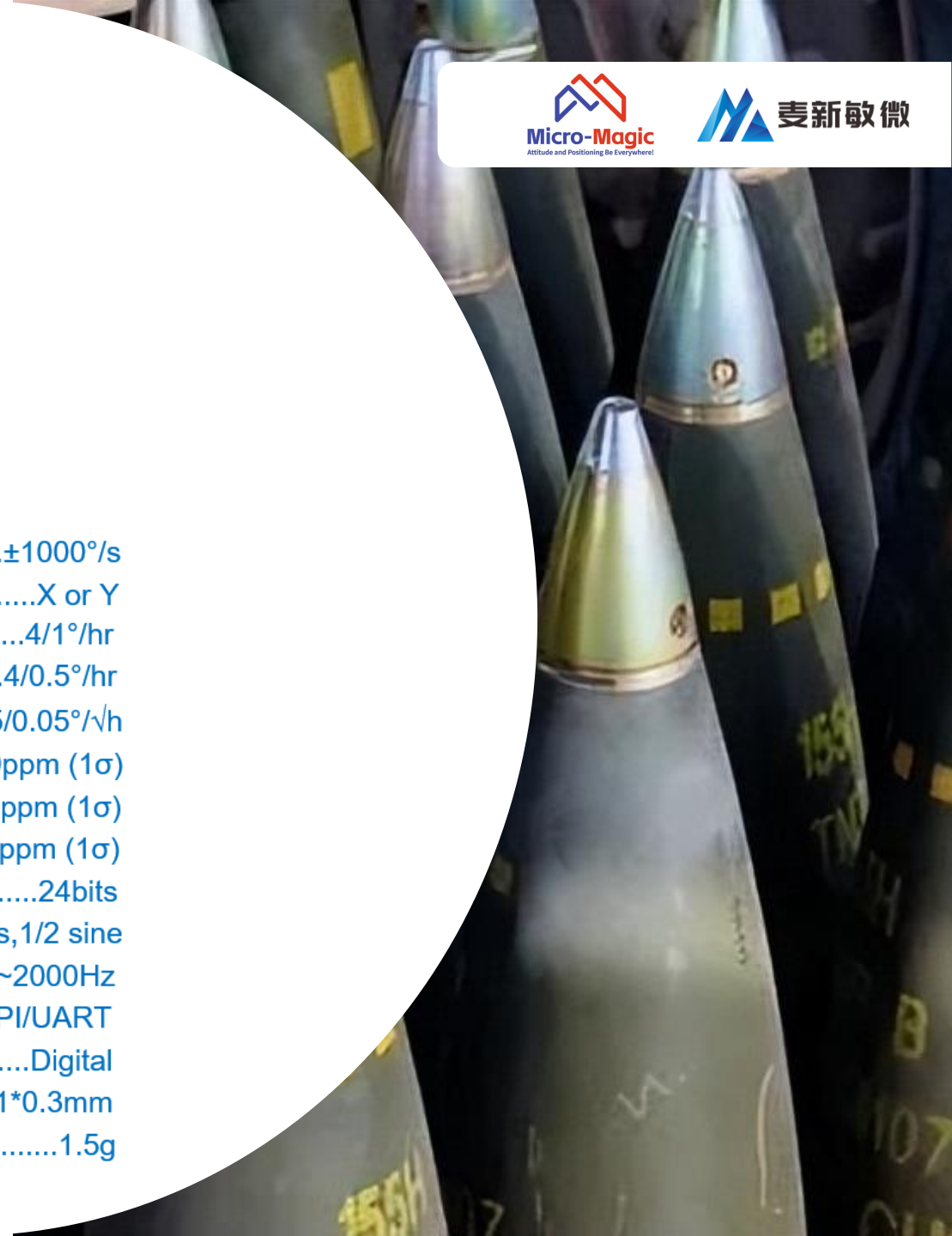
Dynamic Range	±500°/s
Measuring Axis	X or Y
Zero Bias Stability (10s, 1σ)	2.5/5/2°/hr
Zero Bias Repeatability (1σ)	3/5/1°/hr
Random Walk Coefficient	0.125/0.25/0.1°/√h
The Scale Factor of Nonlinearity	150ppm (1σ)
The Scale Factor of Repeatability	10/10/20ppm (1σ)
The Scale Factor of Temperature	50ppm (1σ)
Resolution	24bits
Impact Resistance	10000g,10ms,1/2 sine
Vibration Conditions	18grms, 20~2000Hz
Communication Protocol	I^2C/SPI/UART
Output Signal	Digital
Pack and Size	Chip, 11*11*0.3mm
Weight	1.5g

MG-1001/1002
INDUSTRIAL GRADE

Electronic Compass Sensor



Dynamic Range	±1000°/s
Measuring Axis	X or Y
Zero Bias Stability (10s, 1σ)	4/1°/hr
Zero Bias Repeatability (1σ)	4/0.5°/hr
Random Walk Coefficient	0.15/0.05°/√h
The Scale Factor of Nonlinearity	150/100ppm (1σ)
The Scale Factor of Repeatability	5/20ppm (1σ)
The Scale Factor of Temperature	50/100ppm (1σ)
Resolution	24bits
Impact Resistance	10000g,10ms,1/2 sine
Vibration Conditions	18grms, 20~2000Hz
Communication Protocol	I^2C/SPI/UART
Output Signal	Digital
Pack and Size	Chip, 11*11*0.3mm
Weight	1.5g



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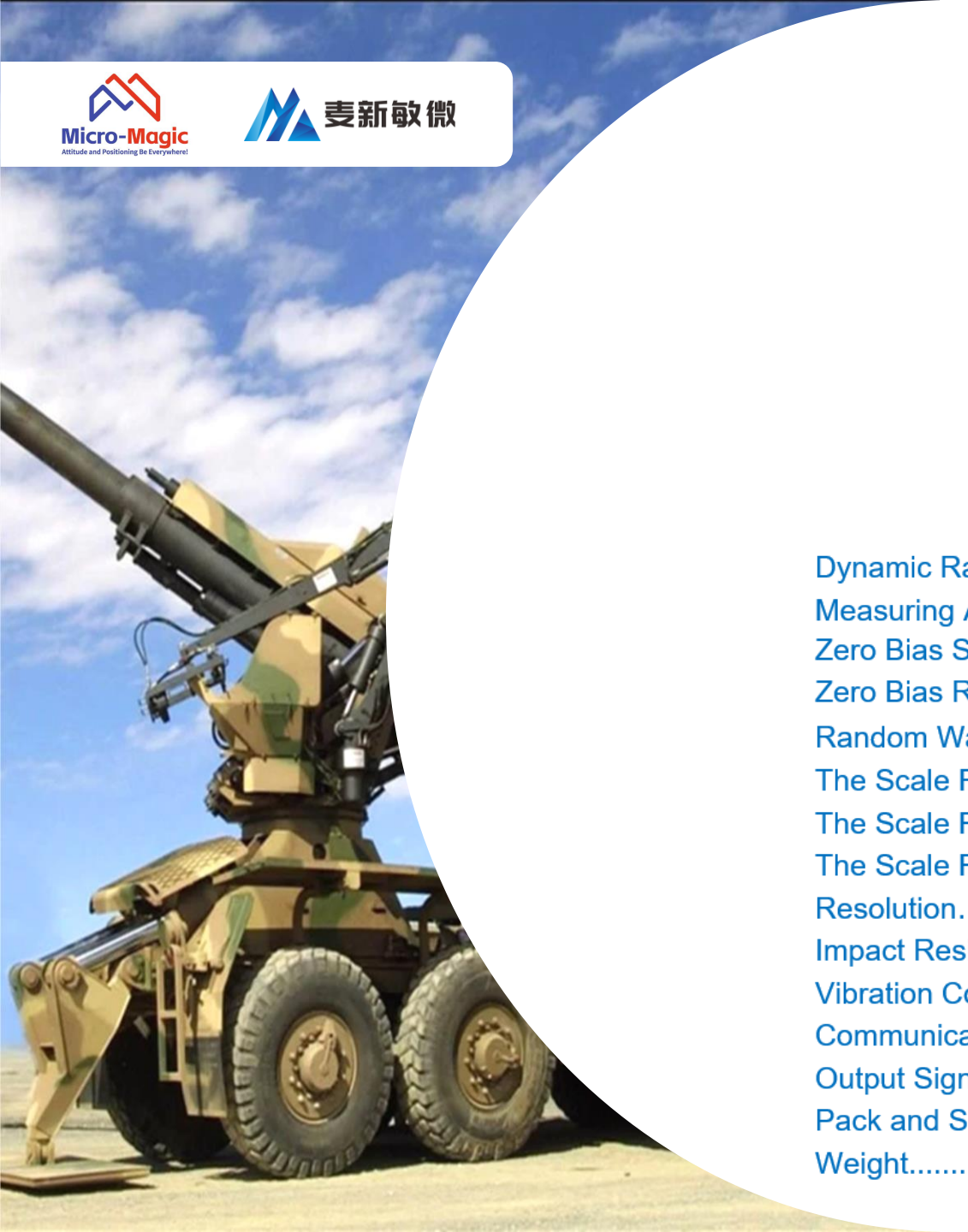
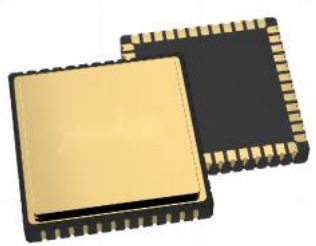


MG-2001
TACTICAL GRADE

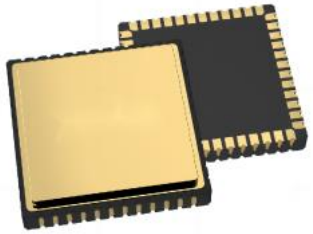
MEMS Gyroscope Chip and Module



Dynamic Range	±2000°/s
Measuring Axis	X or Y
Zero Bias Stability (10s, 1σ)	5°/hr
Zero Bias Repeatability (1σ)	5°/hr
Random Walk Coefficient	0.25°/√h
The Scale Factor of Nonlinearity	150ppm (1σ)
The Scale Factor of Repeatability	5ppm (1σ)
The Scale Factor of Temperature	50ppm (1σ)
Resolution	24bits
Impact Resistance	10000g,10ms,1/2 sine
Vibration Conditions	18grms, 20~2000Hz
Communication Protocol	I^2C/SPI/UART
Output Signal	Digital
Pack and Size	Chip, 11*11*0.3mm
Weight	1.5g

MG-4001/4002
TACTICAL GRADE

MEMS Gyroscope Chip and Module



Dynamic Range	±4000°/s
Measuring Axis	X or Y
Zero Bias Stability (10s, 1σ)	10/4°/hr
Zero Bias Repeatability (1σ)	5/1°/hr
Random Walk Coefficient	0.5/0.15°/√h
The Scale Factor of Nonlinearity	100ppm (1σ)
The Scale Factor of Repeatability	10ppm (1σ)
The Scale Factor of Temperature	100ppm (1σ)
Resolution	24bits
Impact Resistance	10000g,10ms,1/2 sine
Vibration Conditions	18grms, 20~2000Hz
Communication Protocol	I^2C/SPI/UART
Output Signal	Digital
Pack and Size	Chip, 11*11*0.3mm
Weight	1.5g

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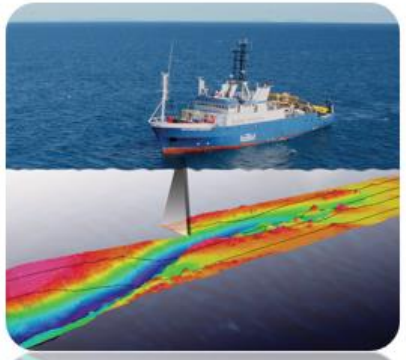
The Leader in China Inertial Sensor Market

Unmanned Aerial Vehicles

Satellites

Autonomous Vehicles

Remotely Operated Underwater Vehicles



Maritime Echosounder Application

Petroleum Extraction and Exploration