Satelcom Magnetic Compass

Digital Magnetic Compass, Tilt Sensor, 3 Axis Accelerometer

OVERVEIW

- *Heading*
- *Inclination*
- *3 Axis Acceleration*

A unique factory calibration combined with embedded user calibration software enables outstanding heading determination over soft iron and hard iron disturbances of operational conditions. Offers two unique calibration methods. Quick calibration; For immediate operational readiness procedure with reduced accuracy. Extended calibration; provides optimal calibration utilizing accurate measurements.

Guarenteed operational precision regardless of compass orientation.

Straight forward interface supports simple integration resulting in low and predictable system integration cost.

Offers light weight, small size and low power consumption with reliable, accurate performance.

Specifications	
Azimuth (Heading) Accuracy	0.25° (1σ) / 0.50° (2σ)
Tilt Accuracy	0.1°
Elevation / Bank	-180…+180°
North Angle Accuracy (±180˚ Tilt)	0.3°(RMS)
North Angle Resolution	0.1°
North Angle Repeatability	0.05° (3σ)
Tilting Angle Accuracy (±180˚ Tilt)	0.2°(RMS)
Pitching Angle Range	± 180°
Bank Angle Range	± 180°
Tilt Angle Resolution	0.01°

Magnetic Sensor Specifications	
Resolution	2.7nT
Noise	15nT
Repeatability	8nT
Field Measurement Range	-800 to +800 µT
Sensitivity	13nT

KEY FEATURES

- A superior price and performance,
- Light weight, small size and low power consumption,
- Withstand harsh and extreme environmental conditions.
- Standard electronic interface
- High-precision mechanical interface
- Automatic calibration capability in Soft and Hard Iron environments

Physical/Electrical/ Environmental	
Dimensions (max)	33 x 31 x 13.55 mm
Weight (max)	< 30 gr
Housing material	Aluminium
Power Consumption	250 mW max
Power supply	5 V ± 5 %
Temperature (operating)	-32°C…+55 °C
Serial interface	RS 232, 5 V TTL compatible

SATELCOM TELEKOMÜNİKASYON
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DMY ELECTRONIC | INVESTMENTS
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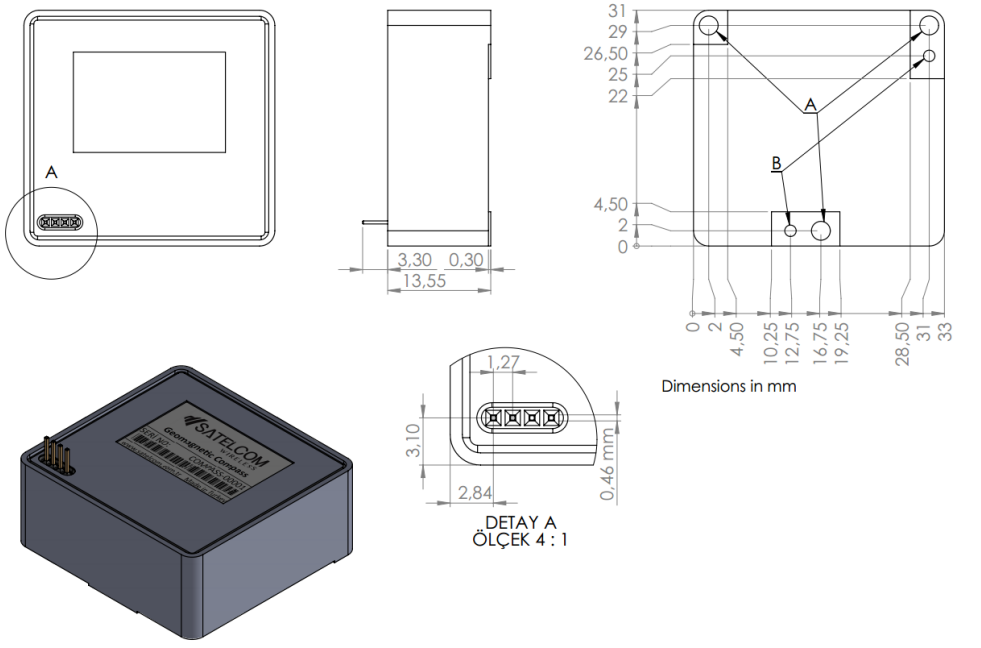
Picture

Dimensions



Dimensions in mm

Disclaimer: All images are for reference purposes only

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Important Notice: Information contained in this data sheet is believed to be reliable at the date of issue, however accuracy and completeness is not guaranteed. Satelcom holds the right to change the product specifications without notice.

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