

JUPITER SE868K7-A / AL

Model	Constellations				Interfaces				Features				
	GPS/QZSS	GLONASS	Galileo	BDS	UART	SPI	I2C	Add. LNA	SAW	Track. Sensitivity	Acq. Sensitivity	Flash	Size
SE868-A	•	•	•		•		•			-159	-145	•	11 x 11 x 6.1
SE868K3-A	•	•	•		•	•	•	•	•	-164	-148	•	11 x 11 x 6.1
SE868K3-AL	•	•	•		•	•	•	•	•	-160	-145	•	11 x 11 x 4.1
SE868-AS	•				•					-160	-146		11 x 11 x 6.1
SE868K7-A	•				•			•	•	-164	-148		11 x 11 x 6.1
SE868K7-AL	•				•			•	•	-160	-146		11 x 11 x 4.1

Product Features

- 32-pad QFN package with embedded SMT antenna
- Embedded 9 x 9 mm SMT antenna
- Frequency Bands: GPS L1, QZSS L1,
- Standards: NMEA
- Jamming rejection
- Additional LNA + SAW filter
- A-GPS: ephemeris file injection
- EGNOS, WAAS, GAGAN and MSAS capability embedded with correction of positional errors due to ionospheric and orbital disturbances

Environmental

- Dimensions: 11 x 11 x 6.1 mm (SE868K7-A)
- Dimensions: 11 x 11 x 4.1 mm (SE868K7-AL)
- Weight: <2 g
- Temperature range:
 - Operating temperature: -40 to +85°C
 - Storage temperature: -40 to +85°C

Interfaces

- 2x UART
- PPS for precise timing

Approvals

- RoHS compliant
- R&TTE

Electrical & Sensitivity

- Current consumption
 - Backup : < 30 uW
 - Full power tracking: < 70 mW (G+G)
 - Full power acquisition: < 80 mW (G+G)
- Sensitivity (SE868K7-A)
 - Acquisition: -148 dBm
 - Navigation: -161 dBm
 - Tracking: -164 dBm
- Sensitivity (SE868K7-AL)
 - Acquisition: -146 dBm
 - Navigation: -159 dBm
 - Tracking: -160 dBm
- Power supply
 - Range from 3 up to 4.3 V
- Positional accuracy (CEP50):
 - Autonomous Positional Error = 2.5m
- Accuracy
 - Speed: < 0.01 m/s
 - Heading: < 0.01 deg
- Time to first fix (90% @ -130 dBm)
 - Hot start: 1 s
 - Cold start: < 35 s



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