

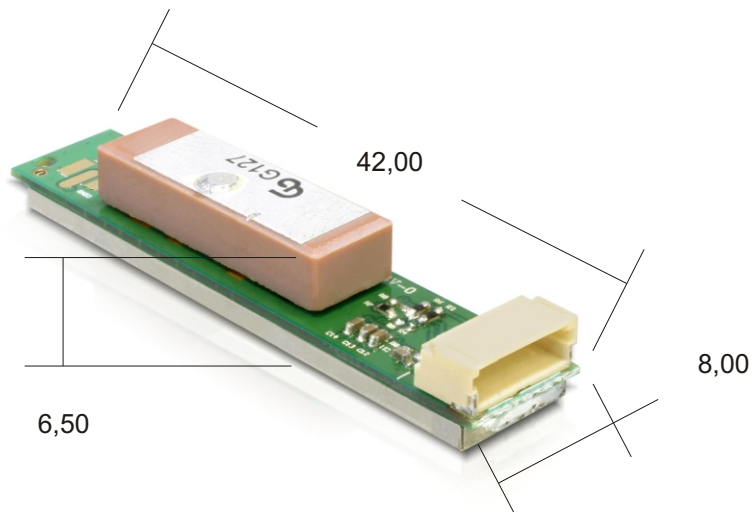
Specification

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60429

Navilock industry GPS Engine Module NL-533ETTL

EAN: 4043619604296

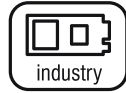


original size

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Overview

NL-533ETTL is equipped with -159dBm engine, MMCX RF connector and measures just 42x8x6.5 (mm). The slim design allows it to be used in dimension demanding devices. Our experienced design provides not only fast acquisitions and excellent tracking performance but also quality and delivery assurance.

Features

- UART interface
- Slim: 42 (L) x 8 (W) x 6.5 (H) (mm)
- Dual-antenna support: built-in patch antenna and
- RF connector for external active antenna
- Module ON/OFF control for power saving
- Backup power pin for fast position fix
- Easy to use 6-pin connector
- High performance: -159dBm tracking sensitivity
- A-GPS support
- Excellent EMI protection



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Technical specifications

Receiver performance data

Receiver Type	u-blox 5, 50-channel, L1 frequency, C/A code
Horizontal Position Accuracy	< 2.5m (Autonomous) < 2.0m (WAAS) (CEP, 50%, 24-hour static, -130dBm, SEP < 3.5m)
Velocity Accuracy	<0.1 m/s (speed) <0.5° (heading) (50% @ 30 m/s)
Time To First Fix	Autonomous (All at -130dBm)
Hot start	1sec
Warm start	32sec
Cold start	32sec
Sensitivity	-142dBm (acquisition) (Autonomous) -159dBm (tracking & navigation)
Max. Update Rate	4Hz
Max. Altitude	< 18.000 m
Max. Velocity	< 1.852 km/hr
Protocol Support	NMEA 0183 v2.3 UART: 38400bps N,8,1; GGA, GLL, GSA, GSV, RMC, VTG, TXT
SBAS Support	WAAS, EGNOS, MSAS, GAGAN
Dynamics	< 4g



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Electrical data

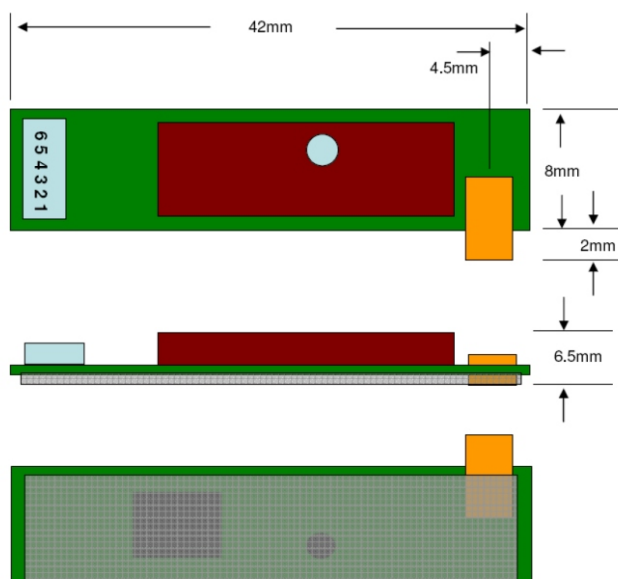
Power Supply	3.5 ~ 6 V
Power Consumption	55 mA / average tracking
Backup batterie	1,4 ~ 3,6 V

Environmental data

Operating temperature	-40 ~ 85°C
Storage temperature	-40 ~ 85°C

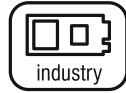
Mechanical data

Dimension	8 (W) x 42 (L) x 6,5 (H) mm
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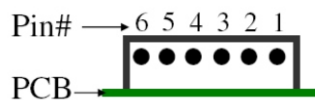
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6-pin Interface (USB), pitch 1.0mm

Pin	Name	Function	I/O
1	GND	Ground	Input
2	VCC	3.3 ~ 6 V power supply	Input
3	TXA	Port A serial data output (from GPS)	Output
4	RXA	Port A serial data input (from GPS)	Input
5	V_BAT	Backup power (1.4 ~ 3.6V)	Input
6	PWR_CTRL	Module power control High or disconnected: power ON Low: power OFF	Input

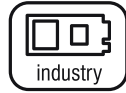
Host interface connector: 6 pin SMT male connector (product number (male): 87213-0600L connector vendor Aces Electronic CO. LTD).



cable optional: Delock A95835



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Support Navilock

If you have further questions, please contact our customer support
support@navilock.de.

You can find current product information on our homepage: www.navilock.com.

Final clause

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