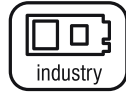




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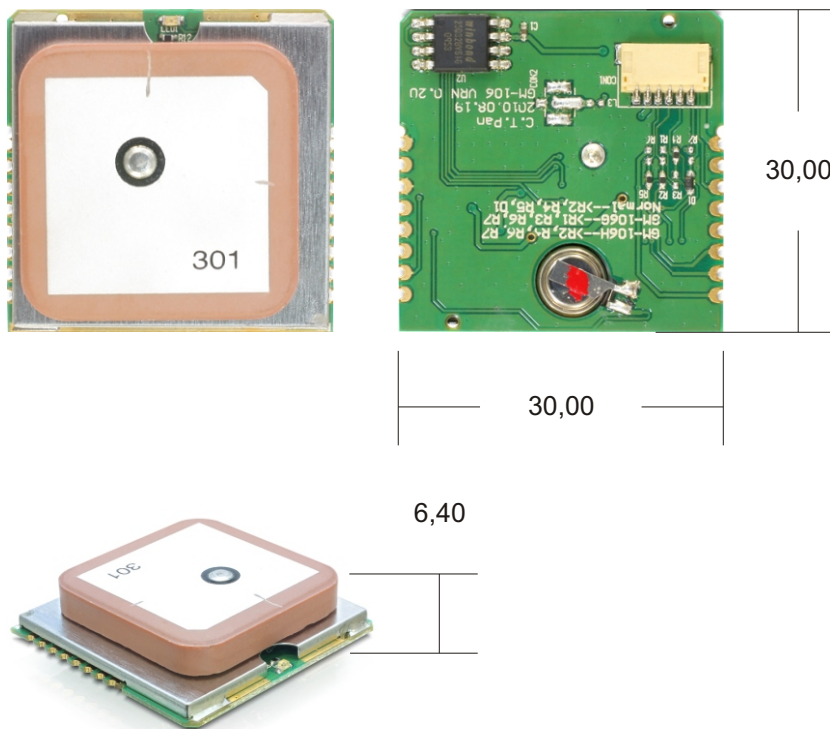


Specification

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Navilock GPS Engine Module NL-522ETTTL/ERS

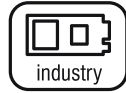
EAN: 4043619604265



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Specification

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Navilock GPS Engine Module NL-522ETTTL/ERS

EAN: 4043619604265

Overview

NL-522ETTTL is an easy to use, high performance GPS smart antenna module with patch antenna for AVL applications. Our experienced design provides fast acquisitions and excellent tracking performance. 1st 10Hz update rate is useful for high-speed racing car and plane applications.

- Easy to use with built-in patch antenna, backup battery, and 6-pin I/O connector
- High performance: -159dBm tracking sensitivity
- 20Hz update rate
- Support [magnetic variation](#) information
- Low power: 40mA at continuous tracking
- Fully EMI shielded
- Industrial operating temperature range: -40 ~ 85°C (except battery: -20°C ~ 60°C)

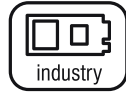
Technical specifications

Receiver performance data

Receiver Type	SkyTraq-638 65-channel,
Horizontal Position	L1 frequency, C/A code
Accuracy	2.5m CEP
Velocity Accuracy	<0.1 m/s (speed)
Time To First Fix	Autonomous
Hot start	< 1sec
Warm start	< 35sec
Cold start	< 42sec
Sensitivity	-146dBm (acquisition)
(Autonomous)	-158dBm (tracking)
Max. Update Rate	20Hz
Max. Altitude	<18.000 m
Max. Velocity	1.852 km/hr
	NMEA v3.01, 4800bps N,8,1;
Protocol Support	GGA, GSA, GSV, RMC, VTG
Dynamics	4G



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Navilock GPS Engine Module NL-522ETTTL/ERS

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Electrical data

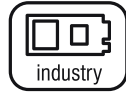
Power Supply	3.5 ~ 5.5 V
Power Consumption	40mA/average tracking
TTL I/O	VIH: 2~3.6V, VIL: 0~0.8V VOH: > 2.4V, VOL< 0.4V
Protocols	NMEA-0183 V3.01

Environmental data

Operating temperature	-40 ~ 85°C except battery: -20~60°C
Storage temperature	-40 ~ 85°C except battery: -40~60°C
Vibration	5Hz to 500Hz, 5g
Shock	Half sine 30g/11ms

Mechanical data

Dimension	30 (W) x 30 (L) x 6,4 (H) mm
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Specification

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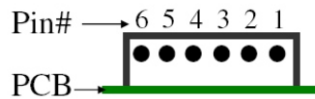
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Navilock GPS Engine Module NL-522ETTTL/ERS

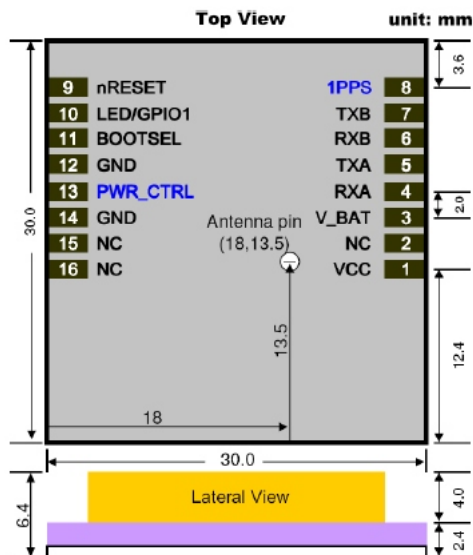
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6-pin interface

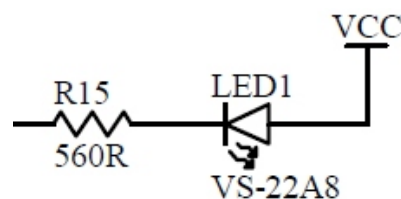
Host interface connector: 6 pin SMT male connector (product number (male): 87213-0600L connector vendor Aces Electronic CO. LTD).



Pin	Name	Function	I/O
1	GND	Ground	Input
2	VCC	Power supply (3.5~5.5VDC)	Input
3	TXD-TTL	TTL level serial data output	Output
4	RX-RS232	RS232 level serial data input	Input
5	TX-RS232	RS232 level serial data output	Output
6	RXD-TTL	TTL level serial data input	Input

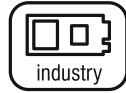


LED Pin 10





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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.

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