

## IPspeed

### GPS receiver for automotive applications

- Accurate GPS receiver (NMEA standard) with CAN output
- 20 Hz update rate
- Low power consumption
- Including GPS antenna with magnetic mounting
- Web interface for device configuration
- 3 LEDs for operation status indication



<b>Device</b>	
Channel sampling rates	1 / 2 / 4 / 5 / 8 / 10 / 20 Hz
Voltage supply	9 ... 36 VDC
Power consumption, typical	0.75 W
Working temperature range	-40 ... 85 °C (-40 ... 185 °F)
Storage temperature range	-45 ... 90 °C (-49 ... 194 °F)
IP-Code	IP 54 (ISO 20653 - 2013)
Relative humidity	5 ... 95 %
Dimensions	W126 mm x H50 mm x D25 mm (4.96 in x 1.97 in x 0.98 in)
Weight	165 g (0.36 lb)
Configuration interface	Ethernet 10/100 Mbit (IP 192.168.232.241)
Configuration interface	CAN high speed
Data transfer rate	Software selectable up to 1 Mbit/s (ISO11898-2)
CAN bus termination	Software switchable
Housing material	Diecast aluminium enclosure
<b>Status LED</b>	
Green	Power on / ready for operation
Yellow	GPS operation / positioning active
Orange	Data transfer / CAN bus active
<b>GPS signals</b>	
Position	Longitude, latitude, altitude
Speed	Speed over ground
Course	Course over ground
Zeit	Date, time
Overall status	Status channel to indicate valid data
<b>GPS receiver</b>	
Protocol	NMEA-0183 (V3.01)

Accuracy-position	2.5 m CEP (Circular Error Probable)
Accuracy-velocity	0.1 m/s (0.36 km/h)
Accuracy-time	60 ns
Time To First Fix - cold start	29 s (Open Sky TTFF)
Time To First Fix - in operation mode	1 s (Open Sky TTFF)
Sensitivity - tracking	-165 dBm
Sensitivity - cold start	-148 dBm
Operational limit altitude (COCOM)	< 18,000 m
Operational limit velocity (COCOM)	< 515 m/s (1854 km/h)
<b>Accessories</b>	
System cable	620-669.pdf
System cable	620-666.pdf
System cable	620-670.pdf
<b>Order code</b>	
Code	IPESPEED