USB GPS RECEIVER BU-353N5 PRODUCT SPECIFICATION V1.0



Features:

MediaTek high sensitivity solution Very high chipset sensitivity (Tracking Sensitivity: -165 dBm) Extremely fast TTFF (Time To First Fix) at low signal level Support NMEA 0183 data protocol Built-in Backup power to reserve system data for rapid satellite acquisition Built-in patch antenna Super-cohesive magnetic for mounting on the car Water resisted and non-slip on the bottom USB interface connection port LED indicator for GPS fix or not fix LED OFF: Receiver switch off LED ON: No fixed, Signal searching

Position Fixed

Specification:

LED Flashing:

General

Chipset Frequency	MediaTek AG3335MN GPS, Galileo, QZSS, SBAS : L1, 1575.42 MHz, C/A code GLONASS : L1, 1602 MHz BeiDou : B1, 1561.098 MHz
C/A code	1.023 MHz chip rate
Channels	75 track verification channels
Sensitivity	Tracking: -165 dBm
Accuracy	
Position 3	meters, 2D RMS
	2.5 meters, 2D RMS, SBAS enabled
Velocity 0.	01 m/s
Time	1us synchronized to GPS time
Datum	
Default	WGS-84

Acquisition Time

Reacquisition	0.1 sec., average
Hot start	< 1 sec., average
Cold start	< 33 sec
	< 15 sec with AGPS

Dynamic Conditions

Altitude	18,000 meters (60,000 feet) max
Velocity	515 meters /second (1000 knots) max
Acceleration	Less than 4g
Jerk	20m/sec

Power

Main power input	4.5V ~ 6.5V DC input
Power consumption	42mA @5V

Protocol

Electrical level	Output voltage level: 0V ~ 2.85V		
Baud rate	4800 bps, 8 data bits, no parity, 1 stop bit		
Output message	NMEA 0183 GGA, GSA, GSV, RMC,		
	GLL, VTG, ZDA, GRS, GST		

Physical Characteristics

Dimension	53mm diameter, 19.2mm height
Cable Length	1.5M
Operating temperature	-40°C to +85°C

Reversion history

Reversion	Date	Name	Status / Comments
V1.0	2021/10/21	Ray Tsai	Initial Version