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data on the move

MT-2000

THE THINNEST BLUETOOTH GPS RECEIVER

The MT-2000 Bluetooth GPS Receiver utilizes the MediaTek 51 channels all-in-view tracking technology and is designed on the MT3318 chip. Built-in Flash Memory will save satellite information and will automatically periodically refresh which shortens the Time To First Fix (TTFF).

The MT-2000 is designed as an ultra low power consumption device with high position accuracy and updates the satellite position 5 pulse per second. The unit contains an auto-locating feature which is capable of automatically determining a navigation solution without intervention.

The MT-2000 is the thinnest Bluetooth GPS Receiver—the size of a credit card!



FEATURES

- ✓ Superior Urban Canyon Performance with 51 channels all-in-view tracing sensitivity – 158dBm
- ✓ WARM/HOT start with high capacity Li-Ion battery—backup power circuit design will keep flash memory and RTC always activated, reduced TTFF
- ✓ Automatically almanac/ephemeris update in flash memory—programmable flash utility will refresh on satellite orbit data information
- ✓ Smart power management solution—GPS will automatically shutdown when Bluetooth signal fails
- ✓ Compatible with Bluetooth Serial Port Profile (SPP)

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For further information contact Antares Corporation on 1300 884 565 or email sales@antares.com.au

SPECIFICATIONS

ITEM	DESCRIPTION
GENERAL	
Core Module	Built-in high performance MediaTek Single Chipset Solution (MT3318)
Satellite channel number	All-in-view 51 parallel satellites
GPS frequency	1575.42 MHz
Receiver	L1, C/A code
Antenna type	Built-in low noise active antenna
Tracing sensitivity	-158 dBm
ACQUISITION TIME	
Refresh	1 second
Cold start	36 sec (avg, normally occurred in first use of GPS receiver life)
Warm start	34 sec (avg)
Hot start	1 sec (avg)
PRECISION/ACCURACY	
Position accuracy	<3m CEP (50%) without SA (horizontal)
Velocity	0.05 m/sec (typical)
DYNAMIC CONDITION	
Altitude	18,000m max
Horizontal Velocity	515 m/s max
Acceleration	4G (G for gravity unit)
Power management	
Applied External Voltage	5V DC +/- 5% (via USB charge cable)
Internal Battery	Rechargeable Lithium-Ion battery, as main power
PROTOCOL & INTERFACE	
Output format	NMEA 0183 V3.01 ASCII (default GGA/GSV/GSA/RMC/VTG) Baud rate : 38400 bps (standard) Data bit : 8 Parity : None Stop bit : 1
NMEA code support	GGA (1 sec) GSV (5 sec) GSA (1 sec) RMC (1sec) VTG (1 sec)
Compatible with Bluetooth devices with Serial Port Profile (SPP)	Bluetooth version 1.2 compliant Bluetooth Class 2 operation (up to 10 meter range) Frequency : 2.400 to 2.480 GHz Modulation : FHSS/GFSK RF channels : 79 Input Sensitivity : -80dBm Output level : 4dBm
DIMENSION SPECIFICATION	
Size	49.7mm x 78.5mm x 6.8mm
Weight	<30g (incl. Battery)
ENVIRONMENT SPECIFICATION	
Operation temperature	-10°C to +60°C
Storage temperature	-40°C to +85°C
Operation humidity	5%R.H. to 95% R.H. no compressed

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