



Specification

GPS receiver	
Chipset	MTK3318
Frequency	L1 1575.42MHz.
Code	C.A. Code.
Chipset Sensitivity	158dBm (tracking)
Chipset cold start	36 sec @ open sky
Chipset warm start	33 sec @ open sky
Chipset hot start	1 sec @ open sky
Reacquisition	less than 1s
Position accuracy	Without aid: 3.0m 2D-RMS DGPS (WAAS, EGNOS, MASA, RTCM): 2.5m
Maximum altitude	18000 m
Maximum velocity	515 meter/second maximum
Update rate	Continuous operation: 1Hz
Dimension (L x W x H)	20 x 19.9 x 6.2 mm
Antenna	
Antenna	Patch size: 18 x 18 x 4 mm
Interface	
I/O Pin	FPC connector
Power consumption	
Current	Fix : 40mA@3.3VAvg() Acquisition : 65 mA @ 3.3V (Avg.)
Vcc	3.3V
Environment	
Operating Temperature	-40 ~ +85°C (w/o Battery)
Temperature	Storage : -20 ~ +60°C (w/ Battery)
Humidity	≤ 95%

Interface Protocol

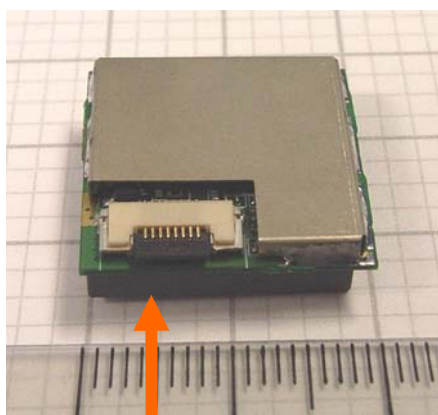
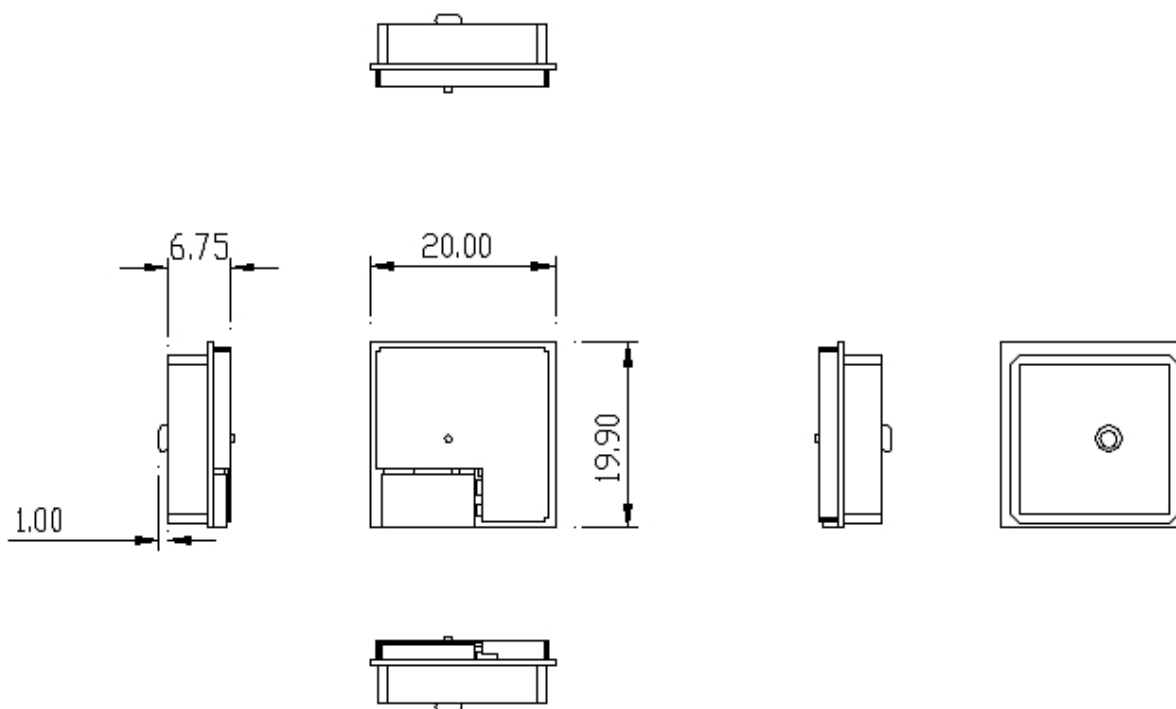
Interface Protocol	- NMEA 0183 ver 3.0
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Software Specifications

Overall system

GPS Firmware	- M-core 2.02
GPS Utility	- A GPS performance diagnostic utility is required - C/NO, TTFF
WAAS	- Disable

Mechanical Diagram



Pin : 1 2 3 4 5 6 7 8

Output Pin Connection (in sequence)

PIN 1	GPS TTL Rx
PIN 2	GPS TTL Tx
PIN 3	GND
PIN 4	Vcc
PIN 5	PPS
PIN 6	V_BAT
PIN 7	X
PIN 8	X