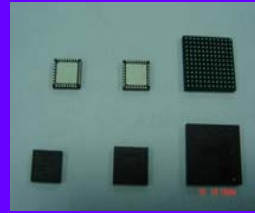




Gaton international Co.,Ltd

Products



GPS
Module

GPS CHIP
Bluetooth Chip



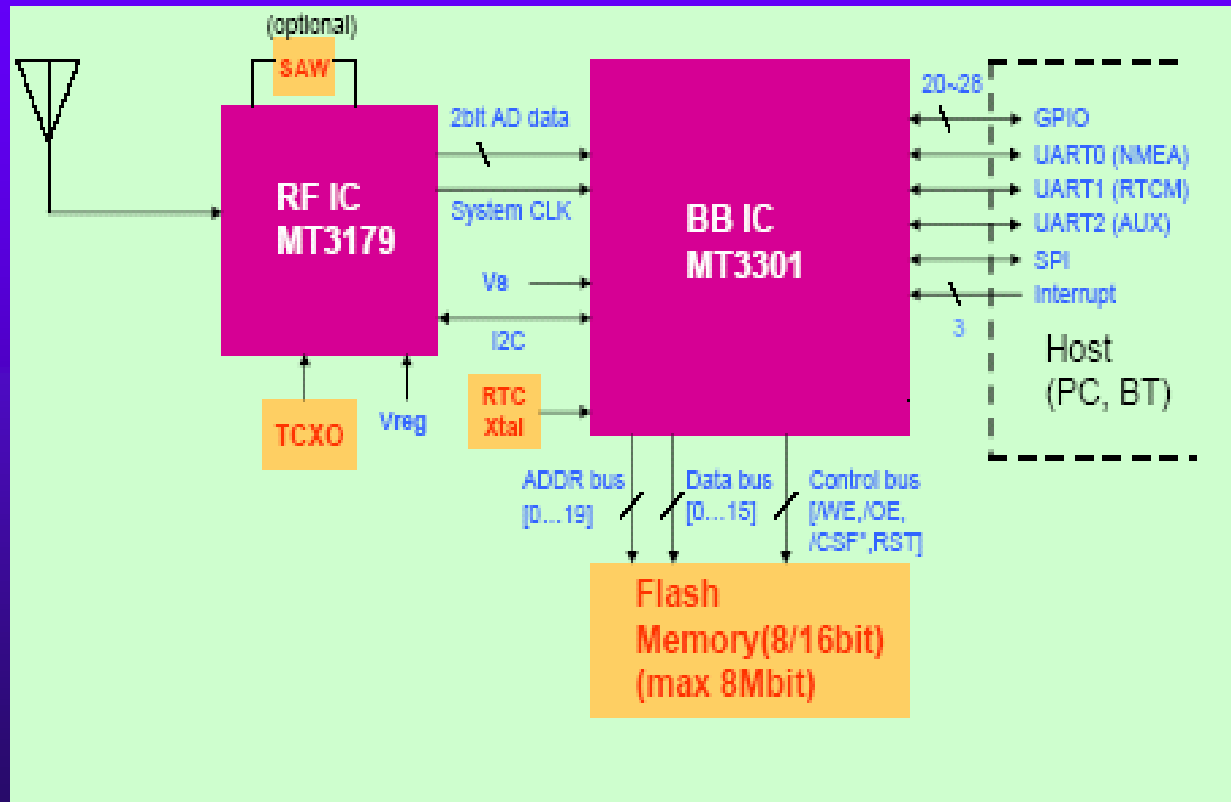
GPS TEST
SYSTEM

Dielectric
Antenna



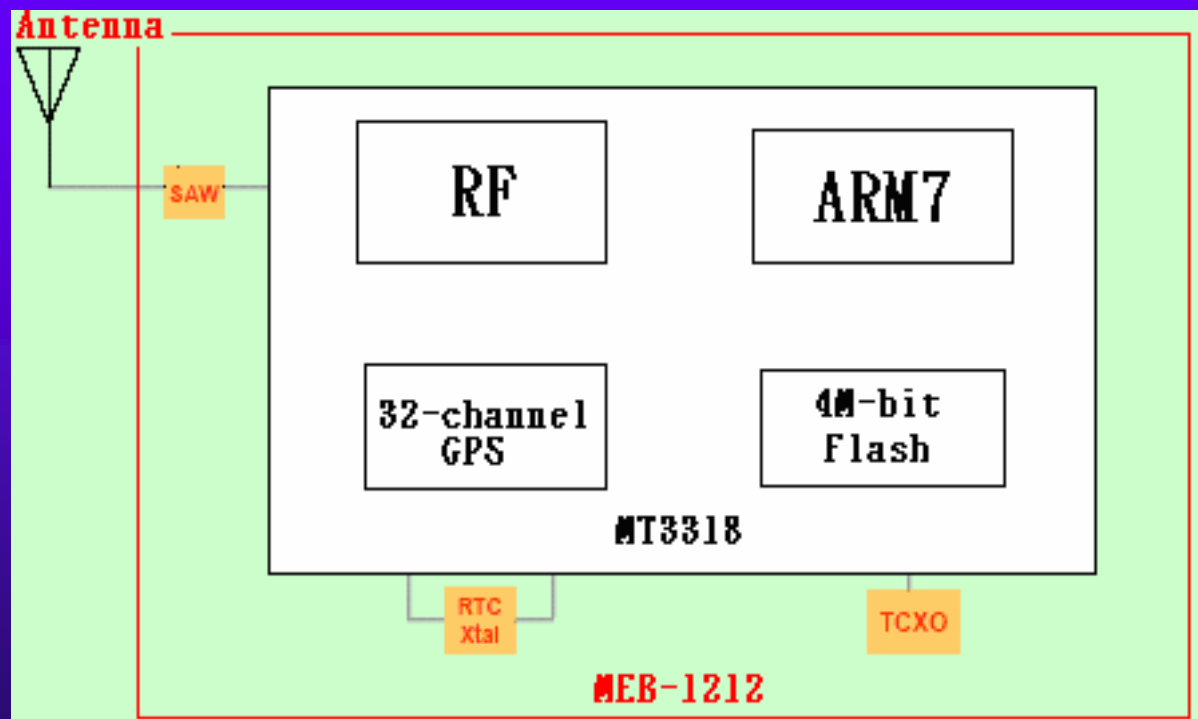
GPS Chip

- ◆ MediaTek MT3179 (RF)& MT3301 (Digital)



GPS Chip

- ◆ MediaTek MT 3318F (6x9x1.3mm)

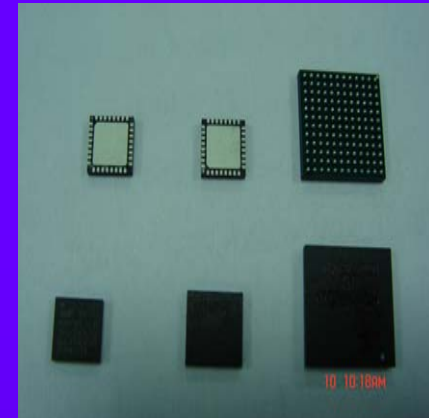


GPS Chip

Chipset Factory	MT3179 +& MT3301	MT 3318	SiRF star III	ATMEL+U-Blox
	MediaTek	MediaTek	http://www.sirf.com	http://www.atmel.com
SENSITIVITY				
TRACKING	-159 dBm	-159 dBm	-159 dBm	-150 dBm
ACQUISITION	-159 dBm	-159 dBm	-140 dBm	-140 dBm
TTFF(Fast Time To First Fix)				
Cold Start	42 sec	<42 sec	<42 sec	34 sec
Warm Start	35 sec	<35 sec	<35 sec	
Hot Start	1 sec	<1 sec	1 sec	<3.5 sec
POWER	Tricking mode Current 59mA x average.	Current 35mA average	75mW @1.5V	162mW @3.0V
Channels	32	32	20	16



Bluetooth Chip



- ◆ MediaTek MT 6601
(5x5 TFBGA Pitch 0.5mm Package)
- ◆ Bluetooth Transceiver and Baseband processor
- ◆ Meet Class2 and Class3/Class1+1PA
- ◆ Sensitivity -85dBm

GPS Module

◆ MEB-1000



No	Function	Specification
GPS receiver		
1	Chipset	MediaTek MT3179 (RF)& MT3301 (Digital)
2	Frequency	L1 1575.42MHz.
3	Code	C.A. Code.
4	Channels	32 parallel
5	Sensitivity (Acquisition)	-159dBm.
6	Cold start	42 sec (Signal Strength > 30 dB-HZ)
7	Warm start	35 sec (Signal Strength > 30 dB-HZ)
8	Hot start	1 sec (Signal Strength > 30 dB-HZ)
9	Reacquisition	0.1sec typical
10	Position accuracy	10meters at 2D RMS.

GPS Module

◆ MEB-1000

11	Maximum altitude	18000 m
12	Maximum velocity	514 m/s
13	Trickle power mode	Duty cycle \leq 34%. (Variable)
14	Update rate	Continuous operation: 1Hz
15	Testability	It shall be able to be tested by SiRF test IV and single channel simulator.
16	Protocol setup	It shall store the protocol setup in the SRAM memory.
17	DGPS	1.WAAS, EGNOS 2.RTCM protocol
Interface		
18	LNA	No LNA
19	I/O Pin	31pin

GPS Module

◆ MEB-1000

Mechanical requirements		
20	Weight	$\leq 3.5\text{g}$
Power consumption		
21	Vcc	DC 3.3 $\pm 5\%$
22	Current	GPS : Tricking mode Current 59mA average. Fix mode Current 35mA average.
Environment		
23	Operating temperature	-30 ~ 85°C
24	Humidity	$\leq 95\%$



GPS Evaluation Kit

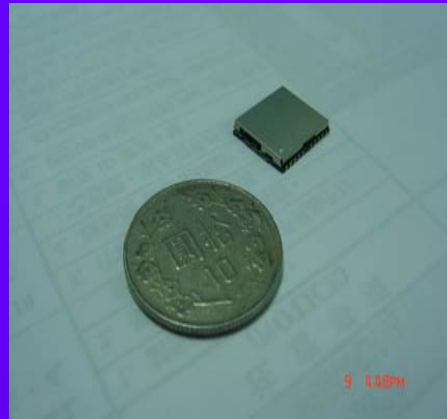
- ◆ MEV-1000
- ◆ RS-232 DGPS PORT/RS-232 NMEA PORT/USB
- ◆ GPIO LED
- ◆ Reset Key
- ◆ BACKUP BATTERY



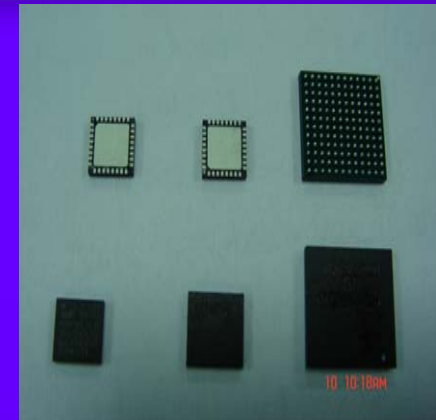
Product line



GPS Antenna



GPS Module



GPS/Bluetooth
CHIPSET



GPS Evaluation kit



Bluetooth GPS



