

May 20th, 2011

More Cost Effective LEA-5 Replacement Choices.

Perfect for Every GPS Applications.

Brochure ([Download](#))



u5 Series:

22.4 x 17 mm form factor

Excellent GPS L1

Performance:

- -165 dBm sensitivity
- TCXO Design
- 10Hz Update Rate

Flexible Firmware

Customization

- Binary Output
- 1-Sentence Output
- Distance Calculation
- and much more!

Gmm-u5j ([Product Page](#))



**Featuring GPS Jammer
Detect and Report "Anti-
JACK" Technology**

- Jamming Status Report



Introducing the u5 series GPS module based on GlobalTop and
MediaTek technologies

u5 GPS Receiver Module Series:

More cost-saving, 22.4 x 17mm form factor choices.

Gmm-u5LP ([datasheet download](#))

GPS module with embedded antenna for tune-free, plug n' play,
time saving design, easy to use for every entry level designer.

Gmm-u5j ([datasheet download](#))

GPS module with revolutionary Anti-JACK technology. It can
detect nearby GPS jammers and report back to host system and
alarm/security devices via software protocol or hardware voltage
level pinout.

Gmm-u5LP ([datasheet download](#))

GPS module in 22.4 x 17mm, less power consumed compared to
LEA-5 series. Only uses 24mA when tracking. Also features
Antenna Advisor, the smart antenna status detect and report
system.

u5 series GPS modules represent the best GPS technology
GlobalTop and MediaTek has to offer using the latest **MT3329**
GPS chipset. With support up to **66 channels** of satellite
searching under **-165dBm** sensitivity, plus **10Hz** maximum update
rate for precise GPS signal processing under low receptive
conditions.

[Gmm-u5LP](#)

via Proprietary Protocol
or Hardware Voltage-
Level Pin-out

- Power saving Mode for
Jammer Detection

Gms-u5LP ([Product Page](#))



Integrated Antenna

- Patch-on-top Ceramic
- 15 x 15 x 4 mm
- No Antenna Tuning
Required

Gmm-u5LP ([Product Page](#))

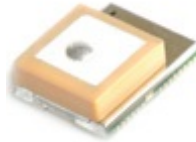


Super Low Power

- 24mA Tracking

Antenna Advisor

- Open Circuit
Notification
- Short Circuit Protection
& Notification



Unlike any GPS module in 22.4 x 17 mm size, Gms-u5LP is the first ever in such size that features a pre-tuned, passive, patch-on-top, ceramic smart antenna that makes it easy for system designers to plug n' play into their applications.

Gmm-u5j and Anti-JACK



Anti-JACK on Gmm-u5j is a powerful, easy to use GPS jammer detection and notification system designed to enhance security with double-layer of protections. Anti-JACK™ is able to alert the security system embedded with Gmm-u5j GPS receiver on nearby GPS jammers through its customized NMEA protocol, or via direct voltage level with dedicated hardware pin out. System integrators can have it connect to a physical alarm or siren to prevent unauthorized break-in.

A total of 4 different GPS jammer detection mode is offered, including a smart power saving mode that reduces power consumption used by jammer detection when the GPS signal reception is above acceptable.

Gmm-u5LP



On the other hand, Gmm-u5LP comes with the addition of a power saving switching mode power supply (SMPS) that can help reduce the overall amount of GPS power consumption compared to LEA-5 series. With minuscule 24mA of power consumption, Gmm-u5LP is perfect for mobile devices such as digital camera, personal tracker, and personal location beacon (PLBs) where power conservation is crucial.

A brand new "Antenna Advisor" that enables the GPS module to detect antenna statuses is also included with Gmm-u5LP. Active antenna connection, antenna open circuit and short circuit can be detected by implementing a single additional resistor. It also features antenna short circuit protection to safeguard the module from being damaged due to short circuiting at antenna I/O.

Software Customizations

All of u5 series GPS modules supports advance firmware customization services that truly bring out the value of GlobalTop GPS module products. These include 1 sentence, binary output mode and distance calculation that eases the burden on the main processor and enhances the overall system efficiency.

About GlobalTop

GlobalTop is the premier MediaTek (MTK) GPS solution designer and manufacturer. Besides from having dedicated technical staffs for GPS integration support and customization, GlobalTop also works closely with MTK on designing innovative GPS features, and is currently one of the largest MTK GPS solution providers.



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