



“One Sentence” Customization Service

“Long battery life” and “light weight” are few of the important characteristics that defined consumer hand-held devices in today’s era. In order to achieve this, these products generally have to be highly specialized for their one or many functions, and yet they need to cope with the lack of a powerful (and also power hungry!) processors for high level of information processing.

GlobalTop understands this demand based on many of our customers’ valuable inputs, and one of our core software services that comes with each and every module is our “One Sentence” customization. Our dedicated software engineers **will help our ordered customers in simplifying the standard NMEA™ sentence into a shorter “PGTOP™ sentence” based on our customer’s needs, and of which will be outputted directly from our GPS modules.** To better understand this, please refer to the following example, where we combined three NMEA standard format sentences into “PGTOP” one sentence.

Standard GGA sentence format

(1) \$GPGGA,064951.000,2307.1256,N,12016.4438,E,1,8,0.95,39.9,M,17.8,M,,*65

Standard RMC sentence format

(2)\$GPRMC,064951.000,A,2307.1256,N,12016.4438,E,0.03,165.48,260406,,,A*55

Standard VTG sentence format

(3)\$GPVTG,165.48,T,,M,0.03,N,0.06,K,A*37

Gtop can combine selected items in these three formats into a new “Gtop One Sentence” format.

Gtop One Sentence format

(4) \$PGTOP, 064951.000,2307.1256,N,12016.4438,E, A,0.03,165.480.03,N,0.06,K *
checksum

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Software Technical News

Name	Example	Units	Description
UTC Time	064951.000		hhmmss.sss
Latitude	2307.1256		ddmm.mmmm
N/S Indicator	N		N=north or S=south
Longitude	12016.4438		dddmm.mmmm
E/W Indicator	E		E=east or W=west
Status	A		A=data valid or V=data not valid
Speed over Ground	0.03	knots	
Course over Ground	165.48	degrees	True
Speed	0.03	knots	Measured horizontal speed
Units	N		Knots
Speed	0.06	km/hr	Measured horizontal speed
Units	K		Kilometers per hour

Customer will only receive information they need, and will avoid the processing time and power required in waiting for and filtering unwanted information. This will simplify the programming coding required for cost & power saving.

Available Models

“Gtop One Sentence” is supported on all GlobalTop GPS modules with **MT3318** or **MT3329** chipset. If you are interested in implementing this exciting technology into your device, contact us (sales@gtop-tech.com) right now for further information.

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