

GTR-388 Quick integration guide

SMS / GPRS commands

Setup APN, APN user and APN password

GSS,[IMEI],3,0,D1=[APN],D2=[user],D3=[password]*QQ!

Example:

GSS,138785469589531,3,0,D1=internet,D2=,D3=*QQ!

Setup server IP and port

GSS,[IMEI],3,0,E0=[IP/domain],E1=[port]*QQ!

Example:

GSS,138785469589531,3,0,E0=201.89.56.207,E1=6000*QQ!

GSS,138785469589531,3,0,E0=www.trackingserver.com,E1=6000*QQ!

Setup SOS phone number

GSS,[IMEI],3,0,G0=[SOS phone 1],G1=[SOS phone 2],G2=[SOS phone 3]*QQ!

Example:

GSS,138785469589531,3,0,G0=1111111*QQ!

GSS,138785469589531,3,0,G0=1111111,G1=2222222,G2=3333333*QQ!

Setup motion report

GSC,[IMEI],M4(Ra=[report interval in static state (seconds)],Ri=[report interval in moving state (seconds)])*QQ!

Example:

GSC,135785412249986,M4(Ra=600,Ri=30)*QQ!

GPRS/3G report format

GPRS report TSPRXAB27GHKLMmnaictuvw*U!

GSr,[T],[S],[P],[R],[X],[A],[B],[2],[7],[G],[H],[K],[L],[M],[m],[n],[a],[i],[c],[t],[u],[v],[w]*[U]!

Codeword	Parameters	Description
T	Device ID	
S	IMEI	

<p>P</p>	<p>Alarm status</p>	<p>xxxx(hex digits) bit0=SOS alarm bit1=Parking alarm status bit3=Autonomous geo-fence alarm bit4=Geo-fence alarm bit5=Speed alarm bit6=Main battery disconnection alarm bit7=Main battery low alarm bit8=Fuel low alarm (analog input)</p>
<p>R</p>	<p>Report type</p>	<p>1=Ping report 4=Motion mode static report 5=Motion mode moving report 6=Motion mode static to moving report 7=Motion mode moving to static report 8=Angle change report G=Geo-fence alarm report H=Autonomous Geo-fence alarm report I=SOS alarm report K=Speed alarm report L=Timer 0 report M=Timer 1 report N=Timer 2 report P=Link report Q=Stopwatch 0 report R=Stopwatch 1 report V= Digital input report a=Analog input report e=Counter 0 report f=Counter 1 report i=Odometer report j= ACC report l=Main battery disconnected m=Main battery low alarm report n=Backup battery low alarm report o=OTA download complete p=OTA download fail q=parking alarm report</p>
<p>X</p>	<p>Variable field, depends on report type</p>	<p>Please refer to the table of X field.</p>

A	GPS-fix status	1=not fix 2=2D fix 3=3D fix
B	UTC Date, Time	ddmmyy,hhmmss
2	Longitude	(E or W)dddmm.mmmm
7	Latitude	(N or S)ddmm.mmmm
G	Altitude	xxxxx Unit: meter
H	Speed	xxx.xx unit: knots (1.852km/hr)
K	Heading	xxx unit: degree
L	Number of satellite in use	xx
M	HDOP	xx.x
m	Main battery voltage of GTR-388	
n	Backup battery voltage of GTR-388	
a	Fuel sensor input	decimal, in mV
i	Odometer	Decimal, in meters
c	3G signal strength	decimal
t	Cell ID-MCC	Mobile country code, 3 digits
u	Cell ID-MNC	Mobile network code, 2 or 3 digits
v	Cell ID-LAC	Location area code, 4 hexadecimal digits
w	Cell-ID-CID	Cell identifier, 4 hexadecimal digits
*		

U	Checksum	It is calculated by 'exclusive OR' the 8 data bits of each character before "*" in the sentence, but excluding "*". The hexadecimal value of the most significant and least significant 4 bits of the result are converted to two ASCII characters (0-9, A-F) for transmission. The most significant character is transmitted first.
!	!	Message delimiter

Report parameter 'X' is variable depending the report type. The relationship is described in the following table.

Report type	Value of X field
1 =Ping report	Y: Joint I/O status
4 =Motion mode static report	Y: Joint I/O status
5 =Motion mode moving report	Y: Joint I/O status
6 =Motion mode static to motion report	Y: Joint I/O status
7 =Motion mode moving to static report	Y: Joint I/O status
G =Geo-fence alarm report	Z: geo-fence status
H =Autonomous geo-fence alarm report	o: autonomous geo-fence distance
I =SOS alarm report	Y: Joint I/O status
K =Speed alarm report	l: speed (in Km/H)
L =Timer 0 report	Y: Joint I/O status
M =Timer 1 report	Y: Joint I/O status
N =Timer 2 report	Y: Joint I/O status
P =Link report	Y: Joint I/O status
Q =Stopwatch 0 report	Y: Joint I/O status
R =Stopwatch 1 report	Y: Joint I/O status
V =Digital input report	Y: Joint I/O status
a =Fuel low report	a: analog input value
e =Counter 0 report	e: counter 0 value
f =Counter 1 report	f: counter 0 value
i =Odometer	i: Odometer value
j =ACC report	Y: Joint I/O status
l =Main battery disconnected	Y: Joint I/O status
m =Main battery low alarm report	m: main battery voltage
o =OTA download complete	Y: Joint I/O status
p =OTA download fail	Y: Joint I/O status
q =Parking alarm report	Y: Joint I/O status

Example:

GSr,GTR-388,358173053538701,0000,4,a000,3,270117,020916,E12129.2716,N2459.8192,88,0,326,10,0.9,1
8240mV,4254mV,0,43190,19,466,97,2B6C,0877470*76!