





















Tiny GSM GPS modules and antennas for mobile tracking devices

GSM Module dimension volume <i>(Pics. not in same scale)</i>	GM862-GPS  (mm) 43.9 x 43.9 x 6 ● (mm3) 11563	GC864-Quad  (mm) 30 x 37 x 3 ● (mm3) 3108	GE864-Quad  (mm) 30 x 30 x 2.8 ● (mm3) 2520	GE864-Quad  (mm) 30 x 30 x 2.8 ● (mm3) 2520	GE865-Quad  (mm) 22 x 22 x 3 ● (mm3) 1452	GE865-Quad  (mm) 22 x 22 x 3 ● (mm3) 1452
GPS Module dimension volume <i>(Pics. not in same scale)</i>	Incl. in GSM module X (mm) 0 x 0 x 0 ● (mm3) 0	OrignGPS 1513  (mm) 17 x 17 x 4.8 ● (mm3) 1387	OrignGPS 1513  (mm) 17 x 17 x 4.8 ● (mm3) 1387	Aarlogic GPS3T  (mm) --- ● (mm3) 1125	OrignGPS 1513  (mm) 30 x 30 x 2.8 ● (mm3) 1387	Aarlogic GPS3T  (mm) --- ● (mm3) 1125
GSM antenna dimension volume <i>(Pics. not in same scale)</i>	ANT-GXP114  (mm) 42x16x1.6 ● (mm3) 1075	ANT-GXP114  (mm) 42x16x1.6 ● (mm3) 1075	ANT-GXE474  (mm) 24 x 5.5 x 4.4 ● (mm3) 581	ANT-GXE474  (mm) 24 x 5.5 x 4.4 ● (mm3) 581	ANT-GXE474  (mm) 24 x 5.5 x 4.4 ● (mm3) 581	ANT-GXE474  (mm) 24 x 5.5 x 4.4 ● (mm3) 581
GPS antenna dimension volume <i>(Pics. not in same scale)</i>	ANT-NXP353  (mm) 18.5 x 18.5 x 7.1 ● (mm3) 2490	Incl. in GPS module X (mm) 0 x 0 x 0 ● (mm3) 0	Incl. in GPS module X (mm) 0 x 0 x 0 ● (mm3) 0	Incl. in GPS module X (mm) 0 x 0 x 0 ● (mm3) 0	Incl. in GPS module X (mm) 0 x 0 x 0 ● (mm3) 0	Incl. in GPS module X (mm) 0 x 0 x 0 ● (mm3) 0
RF link GSM	● Coax cable	● Coax cable	● Micro stripline	● Micro stripline	● Micro stripline	● Micro stripline
RF link GPS	● Coax cable	● Micro stripline	● Micro stripline	● Micro stripline	● Micro stripline	● Micro stripline
Further costs by assembling	● Mounting by B2B connectors, manual work by assembling	● Mounting by B2B connectors, manual work by assembling	● All SMT mounted, minimized manual work by assembling	● All SMT mounted, minimized manual work by assembling	● All SMT mounted, minimized manual work by assembling	● All SMT mounted, minimized manual work by assembling
Summary volume GSM / GPS module plus antennas	● (mm3) 15128	● (mm3) 5570	● (mm3) 4488	● (mm3) 4426	● (mm3) 3420	● (mm3) 3158
Evaluation	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●
Remark	First GM862 launched in year 2000	GC864 launched in year 2007. As bigger GPS patch, as better the receiving signal.  Winner of size versus performance.	GE864 launched in year 2007. As bigger GPS patch, as better the receiving signal.  Winner of size versus performance.	GE864 launched in year 2007	GE865 launched in year 2009. As bigger GPS patch, as better the receiving signal.  Winner of size versus performance.	GE865 launched in year 2009