LOCUS (Data Logger solution):

1. Auto logging data to MTK chip internal flash, no need to wakeup HOST side.
2. Smart overlapping mechanism to keep latest logger data (4KB base).
3. Flexible configuration to support most logging type, mode and contents.
4. Logger capability in MTK chip internal flash:
   (1) With 1 sector flash (64KB), user can log >16 hours
5. Details for logging content:

Table	Naming	Size (bytes)	UTC (4)	Fix Type (1)	Lat (4)	Lon (4)	Height (2)	Speed (2)	Heading (2)	HDOP (2)	SatNo (1)	Checksum (1)
A	Basic	16	○	○	○	○	○					○
B	Racing	20	○	○	○	○	○	○	○			○
C	Search	19	○	○	○	○	○			○	○	○
D	Saving	13	○		○	○						○
E	All	23	○	○	○	○	○	○	○	○	○	○

6. LOCUS operation during Normal and Power saving mode

   Below is the Logging mode behavior during Position normal mode

Positioning / LOCUS config	Normal mode	Power saving mode (Periodic/AlwaysLocate)
AL mode	**No logging**	Logging once before go to sleep
Normal mode	Logging per fix	Logging per fix
Customization	Logging when over the customization criterion	Logging when over the customization criterion
AL + Normal	Logging per fix	Logging once before go to sleep
AL + Customization	Logging when over the customization criterion	Logging once before go to sleep
Normal + Customization	Logging per fix	Logging per fix
AL + Normal + Customization	Logging when over the interval	Logging once before go to sleep

   I. The baud rate 115200 bps is recommended, because of using it for dumping data from internal memory of chip successfully.
   II. It does not provide command to change setting of LOCUS function. It is only set by GlobalTop.
   III. The “Fix Only” is compatible with all other options.
7. The “AL” is used to save flash data and only Log once before going to sleep when AL running
8. The “Interval”, “Distance”, “Speed” are called “Customization mode” in this table, and all of them Are &&(AND) condition with other configuration.