## ATK-NEO-6M GPS 模块帧数据配置方法

本文档默认您已经将硬件连接完毕,并能正常通信。

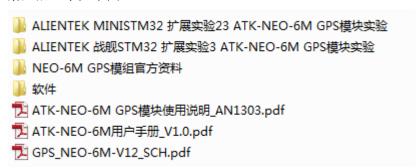
1. 安装 u-center 配置工具(7.02 版本)

下载地址: http://openedv.com/posts/list/12889.htm

附件1: ATK-NEO-6M GPS模块资料.rar (文件大小: 16 MB 下载次数:61308次)

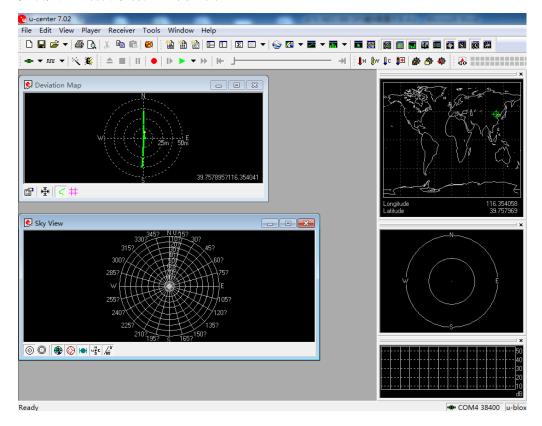


## 解压后显示如下图

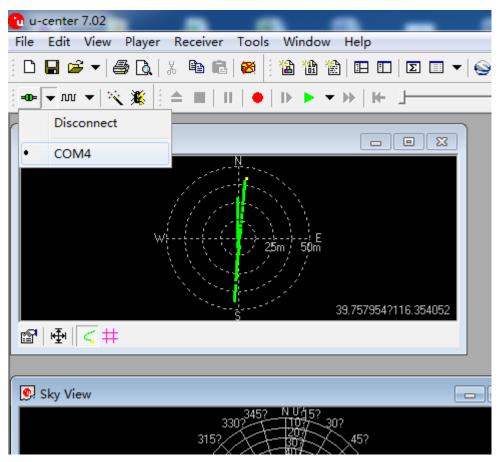


其中,上图中的"软件"文件中即为 u-center 配置工具的安装包。

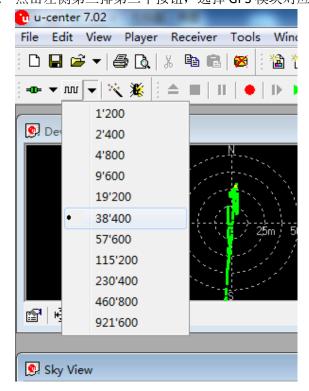
2. 安装完成,打开软件后显示如下图



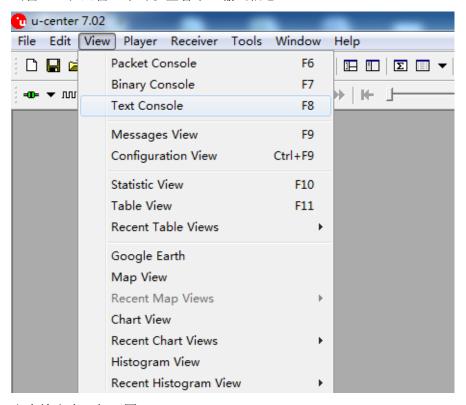
3. 点击左侧第三排第一个按钮,选择 GPS 模块对应的调试串口,连接 GPS 模块



4. 点击左侧第三排第二个按钮,选择 GPS 模块对应的波特率



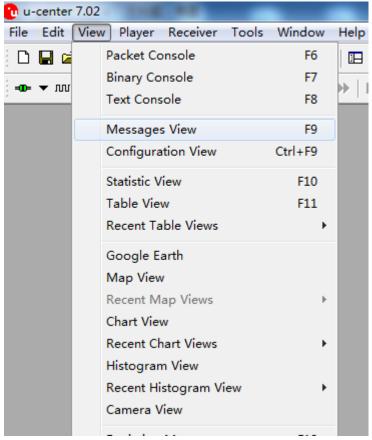
5. 点击菜单栏 "View" 按钮,弹出下拉菜单,单击其中的"Text Console"项,弹出文本输出窗口,在此窗口中可以查看串口输出信息



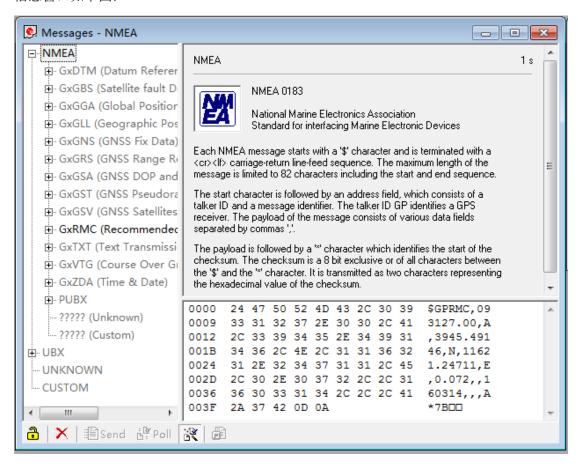
文本输出窗口如下图:

```
Text Console
                                                      _ @ X
             $GPRMC,093012.00,A,3945.48651,N,11621.2467 A
09:30:12
09:30:13
             $GPRMC,093013.00,A,3945.48685,N,11621.2467
09:30:14
             $GPRMC,093014.00,A,3945.48695,N,11621.2468
09:30:15
             $GPRMC,093015.00,A,3945.48698,N,11621.2468
             $GPRMC,093016.00,A,3945.48707,N,11621.2468
$GPRMC,093017.00,A,3945.48720,N,11621.2469
09:30:16
09:30:17
09:30:18
             $GPRMC,093018.00,A,3945.48752,N,11621.2470
09:30:19
             $GPRMC,093019.00,A,3945.48761,N,11621.2470
             $GPRMC,093020.00,A,3945.48784,N,11621.2471
$GPRMC,093021.00,A,3945.48803,N,11621.2471
09:30:20
09:30:21
09:30:22
             $GPRMC,093022.00,A,3945.48806,N,11621.2471
09:30:23
             $GPRMC,093023.00,A,3945.48801,N,11621.2472
             $GPRMC,093024.00,A,3945.48815,N,11621.2472
$GPRMC,093025.00,A,3945.48810,N,11621.2472
09:30:24
09:30:25
             $GPRMC,093026.00,A,3945.48834,N,11621.2472
$GPRMC,093027.00,A,3945.48834,N,11621.2473
09:30:26
09:30:27
🖰 | 🗙 | 🖼 [
```

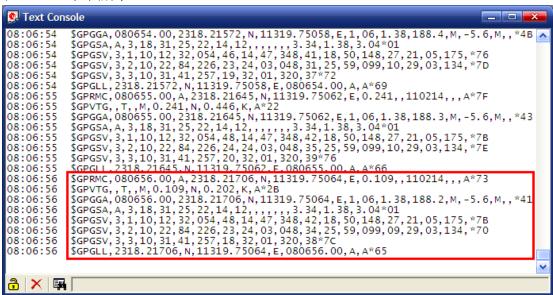
6. 点击菜单栏 "View" 按钮,弹出下拉菜单,单击其中的"Messages View"项,弹出信息 窗口,在此窗口中可以对 ATK-NEO-6M GPS 模块进行配置



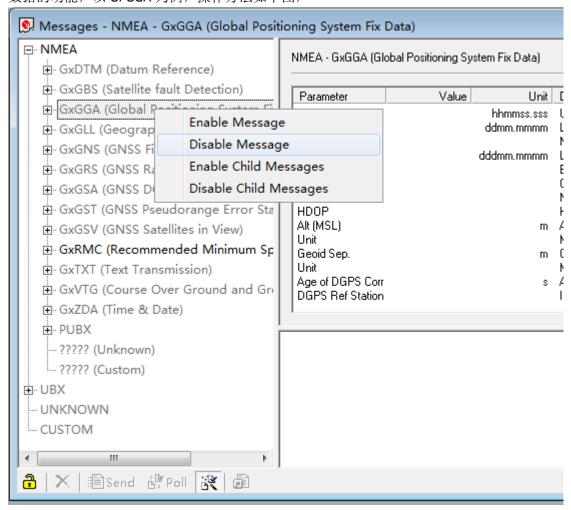
信息窗口如下图:



7. ATK-NEO-6M GPS 模块,默认会输出 6 种帧数据: GPRMC、GPVTG、GPGGA、GPGSA、GPGSV 和 GPGGL,如图所示



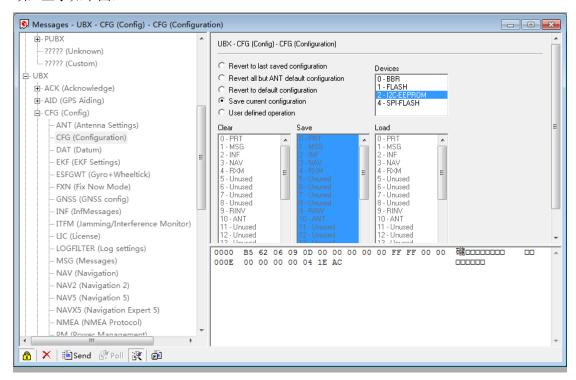
8. 但往往我们只需要其中某一帧数据就可以了,例如 GPRMC,那我们需要关闭其他五个帧数据的功能,以 GPGGA 为例,操作方法如下图,



在 Messages View 窗口中,点开 NMEA 的子菜单,右键点击 GXGGA 项目,弹出右键信息,选择"Disable Message"项目即可。其他帧数据设置方法相同。

9. 为防止掉电后系统重置,我们需要把刚才的配置写入到 ATK-NEO-6M GPS 模块中,要进行如下操作,

在 Messages View 窗口中, 点开 UBX 的子菜单,再点开 CFG 子菜单,单击其中的 CFG 项,显示如下图:



在右侧的窗口中,选中"Save current configuration"单选接钮,Device 栏选中"2-I2C-EEPROM"项,单击左下角的"Send"按钮。就可以将指令发往 ATK-NEO-6M GPS模块,从而将当前的模块配置信息,保存在 EEPROM 里面。

10. 现在我们再在文本输出窗口查看信息,只输出 GPRMC 的数据了,如下图所示(重新上电配置也会保存)。

```
Text Console
                                                                                                                                                                                                                      - - X
09:59:30
                             $GPRMC,095930.00,A,3945.49786,N,11621.24999,E,0.591,,160314,,,A*7F
09:59:31
09:59:32
                            $GPRMC,095931.00,A,3945.49555,N,11621.24995,E,0.161,,160314,,,A*75
$GPRMC,095932.00,A,3945.49329,N,11621.24992,E,0.153,,160314,,,A*7D
$GPRMC,095933.00,A,3945.49125,N,11621.24989,E,0.432,,160314,,,A*7A
09:59:33
                            $GPRMC,095935.00,A,3945.48958,N,11621.24983,E,0.474,,160314,,,A*76
$GPRMC,095935.00,A,3945.48958,N,11621.24980,E,0.506,,160314,,,A*76
$GPRMC,095935.00,A,3945.48842,N,11621.24980,E,0.506,,160314,,,A*7A
$GPRMC,095936.00,A,3945.48716,N,11621.24977,E,0.461,,160314,,,A*7F
$GPRMC,095937.00,A,3945.48575,N,11621.24974,E,0.628,,160314,,,A*75
$GPRMC,095938.00,A,3945.48500,N,11621.24969,E,0.489,,160314,,,A*76
$GPRMC,095939.00,A,3945.48245,N,11621.24965,E,1.476,235.59,160314,,,A*61
09:59:34
09:59:35
09:59:36
09:59:37
09:59:38
09:59:39
                            $GPRMC,095940.00,A,3945.48079,N,11621.24960,E,1.530,207.70,160314,,,A*6E
$GPRMC,095941.00,A,3945.47924,N,11621.24954,E,1.531,194.21,160314,,,A*6A
$GPRMC,095942.00,A,3945.47845,N,11621.24950,E,1.320,186.80,160314,,,A*65
09:59:40
09:59:41
09:59:42
                            $GPRMC,095943.00,A,3945.47764,N,11621.24943,E,1.276,183.48,160314,,,A*69
$GPRMC,095944.00,A,3945.47691,N,11621.24938,E,1.044,182.19,160314,,,A*6F
$GPRMC,095945.00,A,3945.47699,N,11621.24934,E,0.591,,160314,,,A*7B
09:59:43
09:59:44
09:59:45
 🔠 | 🗙 | 🛺 [
```