FIRMWARE CHECK LIST C39

Firmware Setting			
Customer Name		Module Name	PA6H

Default Value (Highlighted in Blue) **Filled By Customer (Highlighted in Red)**

Fundamental Function:

1. Baud Rate (bps) :

☒ Default: 9600 bps ☐ 4800 ☐ 14400 ☐ 19200 ☐ 38400 ☐ 57600 ☐ 115200

2. NMEA Sentence & Interval Period: '0' = No output.

Ex. GSV(5) -> Output 1 GSV sentence every 5-times interval.

☒ Default: GGA(1), GSA(1), GSV(5), RMC(1), VTG(1), GLL(0), ZDA(0)

☐ Custom: GGA( ), GSA( ), GSV( ), RMC( ), VTG( ), GLL( ), ZDA( )

3. Datum:

☒ Default: WGS84 ☐ Tokyo-M ☐ Tokyo-A ☐ Other:_____

4. DGPS mode: ※ RTCM and SBAS cannot be enabled at the same time.

※ RTCM supported products: Gmm-u2p / SL3C / PA6H

※ SBAS can only be enabled when update rate is less than or equal to 5Hz.

☐ Default: SBAS

☐ RTCM: Baud rate (bps): ☐ Default 9600 ☐ 4800 ☐ 14400 ☐ 19200 ☐ 38400 ☐ 57600 ☐ 115200

☒ Disable

5. Update Rate (1~10Hz) :

☐ Default: 1Hz Others: ☐ 2 Hz ☐ 3 Hz ☐ 4 Hz ☐ 5 Hz ☐ 6 Hz ☐ 7 Hz ☐ 8 Hz ☐ 9 Hz ☒ 10 Hz

6. Data Decimal: ※ Sets the number of decimal places for longitude & latitude data in NMEA

☒ Default: 4 decimal places ☐ 6 decimal places

7. 3D Fix Output:

Period range: 0.5sec~16sec ; Duty cycle options: OFF(Low), 50ms, 100ms, 200ms, 1/8, 1/2, 7/8, ON(High)

☐ Default setting

No Fix: Period: 2 sec; Duty cycle: 1/2

Fixed: Period: 0.5 sec; Duty cycle: OFF

☒ Custom

No Fix: Period: 1 sec; Duty cycle: ☐OFF ☐50ms ☐100ms ☐200ms ☐1/8 ☒1/2 ☐7/8 ☐ON

Fixed: Period: 15 sec; Duty cycle: ☐OFF ☐50ms ☐100ms ☒200ms ☐1/8 ☐1/2 ☐7/8 ☐ON

☐ Not Supported

8. 1PPS Output Duration: (Duty cycle range: 1~999ms)

☐Default: 100 ms ☒Custom: Duty cycle: 50 ms ☐Not Supported

9. Timing Mode: 1PPS pulse output mode selection

☒Default: Output 1 PPS after obtaining 3D-Fix ☐Output 1PPS after obtaining 2D-Fix

☐Output 1PPS after the first fix ☐Always Output 1PPS ☐Not Supported

10. AIC: Active Interference Cancellation

☒Default: Enabled ☐Disabled

11. LOCUS: Internal logger function

※ The baud rate 115200 bps is recommended using for LOCUS function.

※ It does not provide command to change setting of LOCUS function.

Logging Type: ☒Default: Full&Stop ☐ Overlap

Logging Content: ☒Default: Basic ☐ Racing ☐ Search ☐ Saving ☐ All

Logging Mode:

☒Default: Interval 15 sec, Fix Only

☐ AL ☐ Fix Only ☐ Normal ☐ Interval _____ sec ☐ Distance _____ meters

☐ Speed _____ m/s

Custom-made Function:

12. 1-Sentence Output:

※ 1-Sentence output, means to output custom-made ASCII or Binary sentence

※ It provides custom-made command to switch mode between custom-made sentence and standard NMEA sentence (default mode)

※ It only support to output one type of sentence at the same time

☒Default: Disabled (It only support standard NMEA sentence)

☐Custom-made (To support customized ASCII or Binary or both of them)

Additional message: ☐ASCII ☐Binary ☐Both

13. Last Position Retention: (Continue to output last known position coordinate when GPS fix is lost)

☒Default: Disabled ☐Enable

14. Magnetic variation: Outputs degree of magnetic variation & measured magnetic heading

☒Default: Disabled

☐Enable (If enable ,the other custom-made function cannot be enabled because of memory shortage)

15. Geofencing: Allows the user to set radius value around a target position. The GPS receiver will notify the user (in custom-made PGTOP format) if the current position is inside or outside this predefined boundary.

☒Default: Disabled

☐Enable

16. Distance Calculation: Outputs straight line distance between two coordinates

☒Default: Disabled

☐Enable