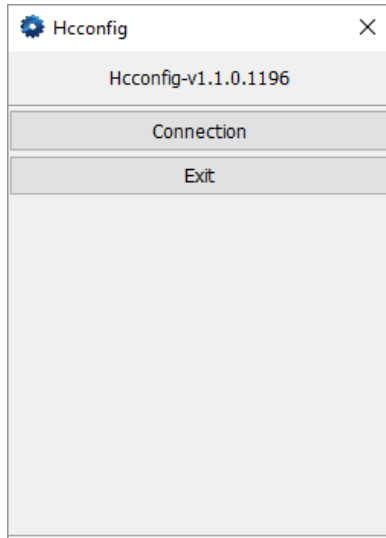


# iG3s Factory Settings

Date: 1 July 2019

By: Mark Silver, [ms@igage.com](mailto:ms@igage.com)

Screen shots of default iG3s configuration. Note: I use this Hcconfig version:



1

And I am superstitious about using any other version.

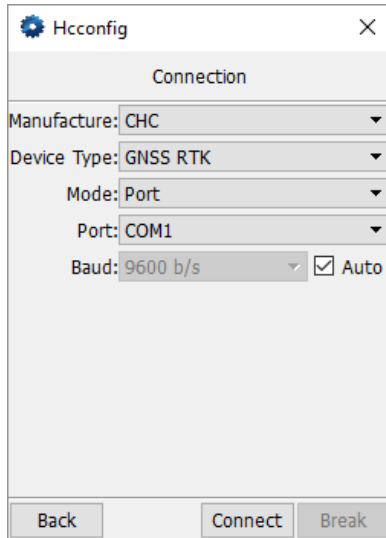
Once I make settings, I always cycle the head power and then double-check to make sure that they have been accepted.

When the receiver boots, if you connect a serial port monitor (I use Putty) at 9600 baud you will see a listing similar to this:

```
Waiting for update!  
OEM TYPE = 3!  
BootVer: 1.40  
Start X91U_ARM ...  
=====  
Receiver Type:    1915  
Receiver Id:     xxxxxxxx  
Product Date:    2018-11-30  
Radio Type:      2  
FirmWare Version: 8.39  
FirmWare Date:   2017-08-17  
Expired date:    2034-08-29  
=====  
Fatfs init Ok  
NO sensor !!!  
WorkMode: Network mode!  
Rover: APIS!  
BT type 3  
BT init... !!!  
BT init OK ...  
Start init gps para #####  
Static frequency: 5S  
Dynamic frq err: 1HZ
```

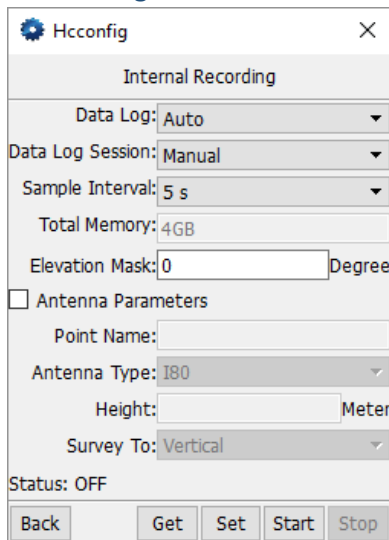
```
Auto none  
Auto Record ...  
COM1!!! CMR  
Start set gps =====
```

Starting Hcconfig, be sure to set the device type to 'GNSS RTK' (NOT 'Smart GNSS'):



Click 'Connect'. Each of the important tabs is shown below.

### Internal Recording



Don't worry about the antenna parameters. They are superseded by the download tool. If you are using the iG3s in a high rate application (as a base for UAV's) then set the 'Sample Interval' to 1-second instead of 5-seconds. (Faster rates like 2 and 5 Hz work, but will cause you trouble. If you must use them, please run some test files first to make sure you really know what is best.)

### RTK

Hcconfig

RTK

Output Mode: Normal

Output Freq.: 1 Hz

Receiver Mode: None

Transmit Port: GPRS And Cable

Data Format: CMR

Elevation Mask: 0 Degree

Back Get Set



### GPRS And Internal UHF

Hcconfig

GPRS And Internal UHF

Work Mode: GPRS

Mode: Rover

Server:

Protocol: APIS

Address: 222.44.183.12

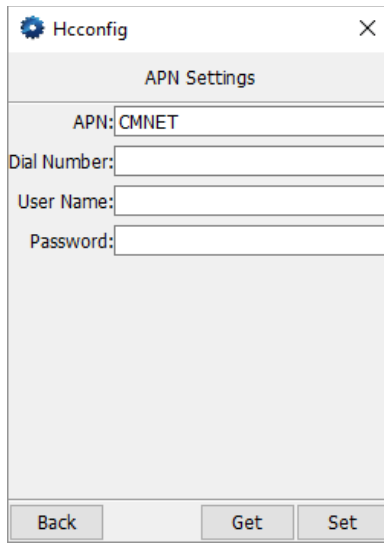
Port: 9902

BaseID: 090909

Save

Back Get Set

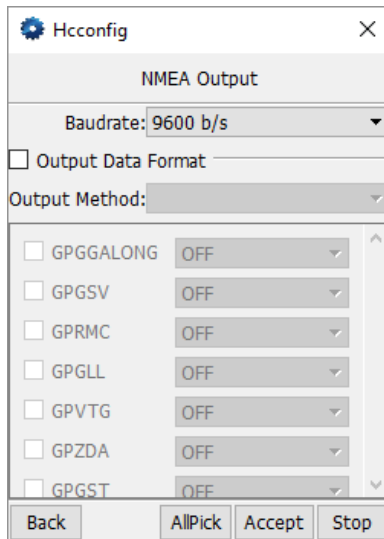
## APN Settings



The screenshot shows a dialog box titled "Hcconfig" with a close button (X) in the top right corner. The main title is "APN Settings". It contains four input fields: "APN:" with the value "CMNET", "Dial Number:", "User Name:", and "Password:". At the bottom, there are three buttons: "Back", "Get", and "Set".

These APN settings don't matter because there is no cell phone modem.

## NMEA Output



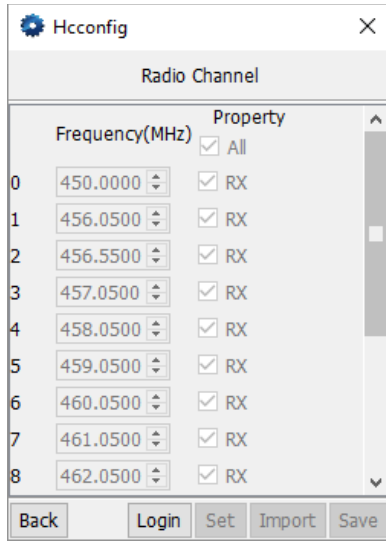
The screenshot shows a dialog box titled "Hcconfig" with a close button (X) in the top right corner. The main title is "NMEA Output". It features a "Baudrate:" dropdown menu set to "9600 b/s". Below this is an unchecked checkbox for "Output Data Format" and an "Output Method:" dropdown menu. A list of NMEA message types is shown, each with an unchecked checkbox and a dropdown menu set to "OFF": GPGGALONG, GPGSV, GPRMC, GPGLL, GPVTG, GPZDA, and GPGST. At the bottom, there are four buttons: "Back", "AllPick", "Accept", and "Stop".

If you change the baudrate, then you will have to connect to the serial port at the new baud rate after the head fully boots. (The initial messages are always shown at 9600 baud.)

To disable the messages, you have to check them, then set them to off, then uncheck them. It is screwy.

If you enable high rate NMEA (like two messages at 2-Hz, then the raw files will be missing information. The main CPU cannot handle the message throughput. For this reason, we are always reluctant to enable NMEA messages at all. If you choose to output them, please make sure the observation files are still valid.

### Radio Channel

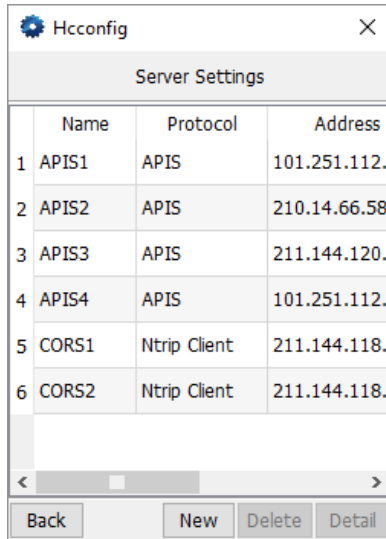


	Frequency(MHz)	Property
0	450.0000	<input checked="" type="checkbox"/> All <input checked="" type="checkbox"/> RX
1	456.0500	<input checked="" type="checkbox"/> RX
2	456.5500	<input checked="" type="checkbox"/> RX
3	457.0500	<input checked="" type="checkbox"/> RX
4	458.0500	<input checked="" type="checkbox"/> RX
5	459.0500	<input checked="" type="checkbox"/> RX
6	460.0500	<input checked="" type="checkbox"/> RX
7	461.0500	<input checked="" type="checkbox"/> RX
8	462.0500	<input checked="" type="checkbox"/> RX



Since there is no UHF radio, these channels do not matter.

### Server Settings



	Name	Protocol	Address
1	APIS1	APIS	101.251.112.
2	APIS2	APIS	210.14.66.58
3	APIS3	APIS	211.144.120.
4	APIS4	APIS	101.251.112.
5	CORS1	Ntrip Client	211.144.118.
6	CORS2	Ntrip Client	211.144.118.

These settings do not matter because there is no cell modem.