GEODNET RTK Base Station Installation Quality Check

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1. Please follow the base station installation guidance to install the base station

2. Check station quality

Please go to <https://console.geodnet.com/map> to search the last 5 digit S/N (you can input the full S/N if you see multiple stations shown and you do not know which to choose) as Figure 1. If you cannot find it, then the station is not online (sometime, you need refresh your browser).

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Figure 1. Station satellite and connection quality check.

The databytes in Figure 1 indicates that the current message bytes received, if it is 0, then the internet should have some issues. The effective satellite no./total satellite no. indicate the satellite tracking information and the installation conditions. The effective satellite no. is the satellite count with GNSS satellite SNR > 32 (see the satellite SNR plot). If more satellites with lower satellite SNR < 32, then the installation is not good. The hourly online rate and token rate show the overall internet connectivity and overall satellite tracking over the time. It should be close to 100% for a good installation.

Wi-Fi Connection is also another important factor in determining the performance of a miner. The Wi-Fi signal is also displayed in the console. Full green bars represent a good connection and strong internet performance.

Example of strong Wi-Fi signal:



3. Check RTK quality control metrics

Not all RTK base stations are used in the GEODNET RTK service, GEODNET backend system has logic to turn on RTK service or not based on the RTK base station status.

The RTK base station’s status can be search from rtk.geodnet.com/map, this address is password protected, need the ntrip user account and password to access the RTK base station status map.

RTK stations have the following status

|  |  |  |
| --- | --- | --- |
|  | Status | Comments |
| 1 | ONLINE  Station online, and not read for RTK service |  |
| 2 | ACTIVE  Station is ready for RTK service |  |
| 3 | OFFLINE  Station offline |  |

https://rtk.geodnet.com/map

