



[JR_ \(/s/profile/0052p00000CFeq1AAD\)](/s/profile/0052p00000CFeq1AAD) (Customer) asked a question.

[April 4, 2022 at 1:43 AM \(/s/question/0D52p00000CEwOSLCQ3/neom9n-reduced-satellites-at-increased-rates-is-there-a-way-around-it\)](/s/question/0D52p00000CEwOSLCQ3/neom9n-reduced-satellites-at-increased-rates-is-there-a-way-around-it).

neo-m9n reduced satellites at increased rates? Is there a way around it?

I have a neo-m9n with SPG 4.04 with an external antenna. It seems that when I set it at 10hz, it only sees 4 satellites. At 5 hz it seems it's at 8 or 16. At 1 hz I see 30+, with 20+ used. At the higher frequencies, I see it "bouncing" between constellations -- 4 GPS satellites for a bit, then 4 galileo or biedo, etc.

Is this expected? Is there a way I can increase this?

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[SPG \(/s/topic/OTO2p000000ULT2GAO/\)](/s/topic/OTO2p000000ULT2GAO/)

[satellites \(/s/topic/OTO2p000000HrGUGAO/\)](/s/topic/OTO2p000000HrGUGAO/)

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[clive1 \(/s/profile/0052p000008HYMwAAO\)](/s/profile/0052p000008HYMwAAO) (Customer)

4 years ago

Yeah, I suspect you need to situate your antenna better, or look more objectively at the UBX-NAV-SIG reporting.

Below 10 Hz it can use up to 32 satellites, but track more, at or above 10 Hz, it will use only 16

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[JR_ \(/s/profile/0052p00000CFeq1AAD\)](/s/profile/0052p00000CFeq1AAD) (Customer)

4 years ago

thanks for the quick answer! For this particular test, the antenna didn't move at all, so is it likely that it's related to this observation? (This is indeed indoors...) I don't understand your message about UBX-NAV-SIG... I'm a newbie... can you spell out more details please?

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clive1 (/s/profile/0052p000008HYMwAAO) (Customer)

4 years ago

You should be able to view all tracked satellites in uCenter via the UBX-NAV-SIG message. In uCenter Classic use the Message View, descending the tree, and enabling the message of interest.

Here's the SPG 4.04 Interface Description Manual describing all the messages in detail.

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JR (/s/profile/0052p00000CFeq1AAD) (Customer)

4 years ago

thanks! I discovered that; (UBX-NAV-SIG). It seems that my android app is maybe the culprit here, u-center indicates what you've said to be true.

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