sorting_this_out (/s/profile/0052p00000Az9HtAAJ) (Customer) asked a question.
June 4, 2022 at 7:51 AM (/s/question/0D52p0000CRqfqZCQR/is-the-neom9n-limited-to-16-svs-for-the-navigation-solution)

Is the NEO-M9N limited to 16 SVs for the Navigation solution?

PUBX, 03 reports 32 satellites maximum

CFG-NAVSPG-INFIL_MAXSVS is set to 42 currently from 32 though this seems to make no difference

PUBX, 00 & NAV-PVT will report no move than 16 SVs used

NAV-SAT will report more than 32 satellites.

It feels like I've missed a limit in the documentation or setting somewhere though I've been though the settings a few times.

I've seen several times where more than 16 satellites meet the conditions needed to be used for navigation.

Positioning
(/s/topic/0TO2p000000Hr7dGAC/)

Navigation Solution
(/s/topic/0TO2p000000QsTuGAK/)

pubx
(/s/topic/0TO2p000000Hrg5GAC/)

+1 more

4 answers   290 views

👍 Like   💬 Answer   ⬆ Share

> clive1 (/s/profile/0052p000008HYMwAAO) (Customer)
> 4 years ago
>
> At 10 Hz or above it will use the best 16 of those tracked. Figure those with higher elevation and least residuals.

At 9.9 Hz (101 ms) and lower it will use up to 32 satellites.

Like   Reply   Like

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

4 years ago

[https://portal.u-blox.com/s/question/0D52p0000AOK91vCQD/can-neom9n-only-use-16-satellites-with-nav-update-rate-5hz (https://portal.u-blox.com/s/question/0D52p0000AOK91vCQD/can-neom9n-only-use-16-satellites-with-nav-update-rate-5hz)](https://portal.u-blox.com/s/question/0D52p0000AOK91vCQD/can-neom9n-only-use-16-satellites-with-nav-update-rate-5hz)

[https://portal.u-blox.com/s/question/0D52p00009Tesk6CAB/neom9n-pubx03-number-of-gnss-satellites-tracked-32-42-92 (https://portal.u-blox.com/s/question/0D52p00009Tesk6CAB/neom9n-pubx03-number-of-gnss-satellites-tracked-32-42-92)](https://portal.u-blox.com/s/question/0D52p00009Tesk6CAB/neom9n-pubx03-number-of-gnss-satellites-tracked-32-42-92)

[https://portal.u-blox.com/s/question/0D52p0000CEwOSLCQ3/neom9n-reduced-satellites-at-increased-rates-is-there-a-way-around-it (https://portal.u-blox.com/s/question/0D52p0000CEwOSLCQ3/neom9n-reduced-satellites-at-increased-rates-is-there-a-way-around-it)](https://portal.u-blox.com/s/question/0D52p0000CEwOSLCQ3/neom9n-reduced-satellites-at-increased-rates-is-there-a-way-around-it)

Like   **Reply**   1 like

---

sorting_this_out (/s/profile/0052p00000Az9HtAAJ) (Customer)
4 years ago

@clive1 (/s/profile/0052p000008HYMwAAO) (Customer) , thanks for the detailed information. While I did search on the forum I didn't find those at the time. I did validate the 9.9Hz to 10Hz change on my end as well.

Like   **Reply**

---

clive1 (/s/profile/0052p000008HYMwAAO) (Customer)
a year ago

[https://github.com/cturvey/RandomNinjaChef/blob/main/M9_channels.c (https://github.com/cturvey/RandomNinjaChef/blob/main/M9_channels.c)](https://github.com/cturvey/RandomNinjaChef/blob/main/M9_channels.c)

Like   **Reply**

Log In to Answer

Ask a Public Question

About u-blox   ›

Investor relations >

News and media >

Careers >

Contact >

Terms and conditions (https://www.u-blox.com/en/terms-conditions)

Privacy policy (https://www.u-blox.com/en/info/u-blox-privacy-policy)

© u-blox (https://www.u-blox.com/en)

(https://twitter.com/ublox) (https://www.linkedin.com/company/u-blox) (https://youtube.com/ublox1) (https://www.facebook.com/ublox) (https://www.instagram.com/ublox/) (https://github.com/u-blox) 知乎 (https://www.z blox-64)