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dklein (/s/profile/0052p00000AKJbgAAH) (Customer) asked a question.
February 14, 2021 at 5:09 AM (/s/question/0D52p0000APdNqMCQV/what-is-the-maximum-solve-rate-number-of-satellites-for-samm8q-using-3-gnss-gps-glonass-galileo)

What is the maximum solve rate / number of satellites for SAM-M8Q using 3 GNSS (GPS, GLONASS, Galileo)?

I've read Clive1's post (here and Github) about M9N (https://portal.u-blox.com/s/question/0D52p0000AOK91vCQD/can-neom9n-only-use-16-satellites-with-nav-update-rate-5hz) limiting to 16 sats above 8Hz and somewhere else saw mention that M8Q might be even further limited and that it may be better to just use 2 GNSS at 5Hz. I'm happy to check it myself if someone can share how to see the actual # of sats in use vs. the # visible.

Positioning (/s/topic/0TO2p000000Hr7dGAC/)   post (/s/topic/0TO2p000000HrkNGAS/)   galileo (/s/topic/0TO2p000000HrlCGAS/)

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2 answers   397 views

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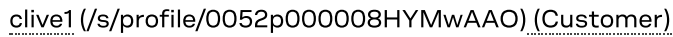**grampy** (/s/profile/0052p000008HYCKAA4) (Customer)
5 years ago

Refer to the SAM-M8Q datasheet for maximum navigation rates for different combinations of GNSS constellations. I believe that maximum number of satellites used is not mentioned.

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clive1 (/s/profile/0052p000008HYMwAAO) (Customer)
5 years ago

UBX-NAV-PVT reports the number of satellites used, and UBX-NAV-SAT will enumerate all satellites tracked, flagging those used.

On the M8 the GALILEO satellites are more burdensome, GPS+GLONASS would be preferred. As I recall the normal ceiling on FW 3.01 is 28 satellites.

On the NEO-M9N the ceiling was hit at update rates of 100ms or below.

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