Overview 2D GPS/GNSS modules 2022

Size ratios do not correspond to reality!	Available since	Serial	CAN	Name	Rate	Satellite constellations	Max. Satellites	CEP	IMU	RTK	Size [mm]	Notes	Link
SIO	2000	✓	✗	10 Hz Mouse	10 Hz	GPS	8	3.00 m	✗	✗	49 x 41 x 14.1	KIT antenna	Website
SIO	2021	✓	✗	25 Hz Mouse	25 Hz	GNSS	32	< 1.00 m	✗	✗	50 x 37.5 x 16.5	**Logger-Firmware** > 100 required to use 25 Hz Mouse	Website
CAN	2015 (2021)	✗	✓	GPS2CAN*	12.5 Hz	GPS	8	2.50 m	✗	✗	50 x 37.5 x 16.5	Via firmware update of **GPS2CAN modules** from 2019+ can receive signals from all GNSS instead of just GPS, which improves positional accuracy. Update reduces the rate from 12.5 to 10 Hz.	Website
					10 Hz	GPS + GLONASS GPS + BeiDou	16	1.50 m					
				GPS2CAN_3A3G*	12.5 Hz	GPS	8	2.50 m	✓			Via firmware update of **GPS2CAN modules** from 2019+ can receive signals from all GNSS instead of just GPS, which improves positional accuracy. Update reduces the rate from 12.5 to 10 Hz.	
					10 Hz	GPS + GLONASS GPS + BeiDou	16	1.50 m					
CAN	2021	✗	✓	GNSS2CAN*	25 Hz	GNSS	32	< 1.00 m	✗	✗	44 x 34 x 15		Website
				GNSS2CAN_3A3G*					✓				
SIO	2023	✓	✗	10 Hz RTK	10 Hz	GNSS	32	0.01 m	✗	✓		**Logger**-Firmware > 100 required to use RTK functionality. Antenna can also be used withouth RTK correction data as normal 10 Hz serial antenna.	RTK Handout

* The update to GPS/GNSS2CAN modules with/without IMU is done via firmware update and can therefore be carried out at any time!

GNSS includes GPS, Galileo, GLONASS and BeiDou