

Technical specifications

	200+	100+	100
Sensor Type:	XT32M2X	XT32	XT16
Laser Sensor Drive Type:	Mechanical circular rotation	Mechanical circular rotation	Mechanical circular rotation
Max. range of beam (m):	300	120	120
XYZ accuracy (cm):	3-5	3-5	3-5
Max. sensor rpm:	1200	1200	1200
Recommended rsensor pm:	600	600	600
Number of laser beams (pcs):	32	32	16
MLS all-round viewing angle:	0-360	0-360	0-360
ALS Angle of circular view:	217-323	217-323	217-323
Vertical viewing angle:	40.3(+19.5...-20.8)	31(+15...-16)	30(+15...-15)
Horizontal resolution, °:	0.09	0.09	0.09
Vertical resolution, °:	1.3	1	2
Weight (g):	800	1000	1000
Dimensions (WxDxH) (mm):	118x155x105	120x155x105	120x155x105
Laser operating wavelength (nm):	905nm	905nm	905nm
Reflection type:	Triple Return	Dual Return	Dual Return
Number of points at single reflection	640000	640000	320000

Number of dots for double reflection	1280000	1280000	640000
Number of dots at triple reflection	1920000	-	-
Laser Safety Class:	Class 1 safe for eyes	Class 1 safe for eyes	Class 1 safe for eyes
Power consumption (watt.):	10	10	9
Operating voltage, V	12-28	12-28	12-28
Connectors for power supply:	LEMO 4 PIN, USB-Type-C	LEMO 4 PIN, USB-Type-C	LEMO 4 PIN, USB-Type-C
Antenna connector:	LEMO FFA.00	LEMO FFA.00	LEMO FFA.00
Min. number of visible satellites to pass initialisation:	8	8	8
Max. ALS wind strength (m/s):	10	10	10
Operating temperature range:	-20°C ... +60°C	-20°C ... +60°C	-20°C ... +60°C
Storage temperature range:	-40°C ... +60°C	-40°C ... +60°C	-40°C ... +60°C
Operating humidity range:	20% ... 95%	20% ... 95%	20% ... 95%
IMU operating frequency (Hz):	200	200	200
Recommended operating altitude (m):	70-150	90-110	90-110
Supported GNSS systems and frequencies:	GPS: L1C/A, L2C; GLONASS: L1OF, L2OF; GALILEO: E1B/C, E5b; BEIDOU: B1I, B2I	GPS: L1C/A, L2C; GLONASS: L1OF, L2OF; GALILEO: E1B/C, E5b; BEIDOU: B1I, B2I	GPS: L1C/A, L2C; GLONASS: L1OF, L2OF; GALILEO: E1B/C, E5b; BEIDOU: B1I, B2I
Number of GNSS receiver channels:	184	184	184
Raw measurement recording frequency, Hertz:	10	10	10
Yaw axis accuracy (°, 1σ):	0.08	0.08	0.08

Pitch axis accuracy ($^{\circ}$, 1σ):	0.03	0.03	0.03
Roll axis accuracy ($^{\circ}$, 1σ):	0.03	0.03	0.03
Memory cards supported	MicroSD	MicroSD	MicroSD
Memory card file system	exFAT	exFAT	exFAT
Internal memory capacity (Gb):	256	256	256
External media connection type:	USB Type-C	USB Type-C	USB Type-C
Country of manufacture:	Switzerland	Switzerland	Switzerland
Possible installation options	Aircraft, car, backpack	Aircraft, car, backpack	Aircraft, car, backpack

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