















RTK GNSS February 2020		STONEX	Leica Geosystems	Trimble	TOPCON	SOKKIA	SPECTRA Precision	GEOMAX	CHCNAV	HI-TARGET	KOLIDA	SANDING	RUIDE	SOUTH	septentrio
															
MODEL	New S900A	VIVA GS18 T	R12	HiPer VR	GRX3	SP 85	Zenith40	ISO Pro	iRTK 5 new	KS IMU	T66 pro	R6p Pulsar	GALAXY G6	Altus NR3	
CHANNELS	800	555	672	672	672	600	672	672	672	440 or 555	672	672	672	672	
BOARD	P40	NOV OEM719	TR B09B2	TOP Vanguard	TOP Vanguard	TRI	NOV OEM719	TR B09B0	TR B09B0	TR B09B0	TR B09B0	TR B09B0	TR B09B0	TR B09B0	
	GPS	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	
SIGNALS TRACKING	GLONASS	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	
	BEIDOU	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2	B1/B2	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	
	GALILEO	E1/ESA/ESB/ARIBOC/E6	E1/ESA/ESB/ARIBOC/E6	E1/ESA/ESB/ARIBOC/E6	E1/ESA/ESB/ARIBOC/E6	E1/ESA/ESB/ARIBOC	E1/ESA/ESB/ARIBOC	E1/ESA/ESB/ARIBOC/E6	E1/ESA/ESB/ARIBOC/E6	E1/ESA/ESB/ARIBOC/E6	E1/ESA/ESB/ARIBOC/E6	E1/ESA/ESB/ARIBOC/E6	E1/ESA/ESB/ARIBOC/E6	E1/ESA/ESB/ARIBOC/E6	
	QZSS	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	
	L-BAND	Atlas	TerraStar	RTX	SkyBridge	SkyBridge	RTX	Terrastar	RTX	RTX	RTX	RTX	RTX	RTX	
IRNSS	L5	L5	L5	L5	L5	L5	L5	L5	L5	L5	L5	L5	L5		
SBAS	V	V	V	V	V	V	V	V	V	V	V	V	V		
BRIDGING OF RTK OUTAGES	AGES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Static H	2.5mm ± 0.4 ppm	3mm ± 0.4 ppm	3mm ± 0.4 ppm	3mm ± 0.4 ppm	3mm ± 0.4 ppm	3mm ± 0.4 ppm	3mm ± 0.5 ppm	2.5mm ± 0.5 ppm	2.5mm ± 0.5 ppm	2.5mm ± 0.5 ppm	2.5mm ± 0.5 ppm	2.5mm ± 0.5 ppm		
ACCURACY	Static V	3.5mm ± 0.4 ppm	3.5mm ± 0.4 ppm	3.5mm ± 0.4 ppm	5mm ± 0.5 ppm	5mm ± 0.5 ppm	3.5mm ± 0.4 ppm	3.5mm ± 0.4 ppm	5mm ± 0.5 ppm	5mm ± 0.5 ppm	5mm ± 0.5 ppm	5mm ± 0.5 ppm	5mm ± 0.5 ppm		
	RTK H	5mm ± 1 ppm	8mm ± 0.5 ppm	8mm ± 0.5 ppm	8mm ± 0.5 ppm	8mm ± 0.5 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm		
	RTK V	10mm ± 1 ppm	15mm ± 0.5 ppm	15mm ± 0.5 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm		
BATE Hz	10-50	50	50	50	50	50	50	50	50	50	50	50	50		
MEMORY	8 Gb	8Gb	6Gb	8Gb	8Gb	4 Gb	8Gb	32Gb	16 Gb	8 Gb	8 Gb	8 Gb	8 Gb		
BLUETOOTH	V	V	V	V	V	V	V	V	V	V	V	V	V		
WiFi	V	NO	V	NO	NO	NO	NO	V	V	V	V	V	V		
WEB USER INTERFACE	V	V	V	NO	NO	NO	NO	V	V	V	V	V	V		
OS	Linux	NO	NO	NO	NO	NO	NO	Linux	Linux	Linux	Linux	Linux	Linux		
RADIO INTEGRATED 410 - 470 MHz	V	V	V	V	V	V	V	V	V	V	V	V	V		
RADIO INTEGRATED 902.4 - 928 MHz	V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
OSM INTEGRATED	4G	4G	4G	4G	4G	4G	4G	4G	4G	4G	4G	4G	4G		
DSPLAY INTEGRATED	NO	NO	NO	NO	NO	NO	NO	V	V	V	V	V	V		
NFC	NO	NO	NO	NO	NO	NO	NO	V	V	V	V	V	V		
E-BUBBLE	V	V	V	V	V	V	NO	V	V	V	V	V	V		
E-COMPASS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
IMU	V	V	V	V	V	V	V	V	V	V	V	V	V		
MAX TILT OPERATION	±50°	±30°	±30°	±15°	±15°	±15°	±15°	±30°	±30°	±50°	±30°	±30°	±30°		
PORT FOR EXTERNAL ANTENNA	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
IPPS	NO	NO	V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
BATTERY CHANGE	V	V	V	NO	NO	NO	NO	V	V	V	V	V	V		
OPERATING TIME (HOURS) STD BATTERY	12	10	10	10	10	10	10	10	10	10	10	10	12		
NR. BATTERY	2	1	1	1	1	2	2	2	2	2	2	2	1		
HOT SWAP	V	NO	NO	NO	NO	NO	NO	NO	NO	NO	V	V	NO		
MATERIAL	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Plastic	Polimeri	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium		
WEIGHT	1190g	1200g	1120g	1150g	1150g	1117g	1180g	1260g	1200g	1330 kg	1350 kg	1390 kg	1440g		
IP	67	66/68	67	67	67	67	68	67	67	67	67	67	67		
MIL	V	V	V	V	NO	NO	NO	V	V	NO	NO	NO	NO		
OPERATING TEMPERATURE	-40° + 65°	-40° + 65°	-40° + 65°	-40° + 70°	-40° + 70°	-40° + 65°	-40° + 65°	-40° + 65°	-40° + 65°	-45° + 65°	-40° + 70°	-40° + 80°	-45° + 60°		
CONTROLLER	Win Mobile	S411	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Win 10	UT20	CS35	TSC7 T7 T10	FC-500 TESLA	SHC-5000	Ranger 7 ST10	NO	NO	NO	NO	NO	NO		
	Android	UT30 UT30 S40	NO	NO	NO	NO	T41	ZeniusX Zenius800	HCE320 LT700	iHand3D	H3Plus N80	X3Plus H5	H3Plus N80		
SOFTWARE	Win Mobile	FieldGenius SurvCE	Captivate	NO	Magnet	GeoPro Field	Survey Pro Fast Survey	X-PAD FieldGenius SurvCE	NO	FieldGenius SurvCE	FieldGenius	FieldGenius	FieldGenius		
	Win 10	FieldGenius SurvCE	Captivate	ACCESS	Magnet	GeoPro Field	Survey Pro	FieldGenius SurvCE	NO	NO	NO	NO	NO		
	Android	FieldGenius Cube-a Cube-manager-p	NO	NO	NO	NO	GeoPro Field Survey Mobile	X-PAD Survey Mobile	LandStar7	Hi-Survey Road	SurvX	Smart RTK	SurvX		
SOFTWARE POST PROCESSING	FieldGenius	IGD	TBC	Magnet Tools	Magnet Office	SPSO	GGD	CGD2	HGO	STC	SGO	Geo Office			
PRESENTATION	2020	2017	2018	2018	2018	2018	2019	2019	2019	2019	2019	2018			

Legend
 Competitor is worst
 Competitor is better