

## GNSS RTK RECEIVER

Update April 2023		STONEX	Leica Geosystems	Trimble	TOPCON	CHCNAV	HI-TARGET	SOUTH	KOLIDA	SANDING	RLIDE
											
MODEL		S990+	VIVA GS18 T	R12i	HiPer HR	i90 Pro	iRTK 5 new	GALAXY 5	K30 Pro	Taurus T9pro	RENO1
CHANNELS		1408	555	672	452	336	336	1760	336	1598	1598
BOARD		UM980	NOV OEM719	TRI BD982	TOP Vanguard	TRI BD990	TRI BD990	TRI BD990	TRI BD990	MK-803	MK-803
SATELLITE SIGNALS TRACKED	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
	GLONASS	L1/L2	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2	L1/L2
	BEIDOU	B1/B2/B3	B1/B2/B3	B1/B2/B3	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/E6	E1/ESA/ESB/AltBOC/E6	E1/ESA/ESB/E6	E1/ESA/ESB/AltBOC/E6	E1/ESA/ESB/AltBOC/E6	E1/ESA/ESB/AltBOC/E6	E1/ESA/ESB/E6	E1/ESA/ESB/E6	E1/ESA/ESB/E6	E1/ESA/ESB/E6
	QZSS	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5
	L-BAND	B2b PPP	TerraStar	RTX	SkyBridge	RTX	Hi-RTP	NO	Starlink	NO	NO
	IRNSS	NO	L5	L5	L5	L5	L5	L5	L5	NO	NO
ACCURACY											
ACCURACY	Static H	2.5mm ± 0.1 ppm	3mm ± 0.1 ppm	3mm ± 0.1 ppm	3mm ± 0.1 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	2.5mm ± 0.1 ppm
	Static V	3.5mm ± 0.4 ppm	3.5mm ± 0.4 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	5mm ± 0.1 ppm
	RTK H	5mm ± 0.5 ppm	8mm ± 0.5 ppm	8mm ± 0.5 ppm	8mm ± 0.5 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 0.5 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm
	RTK V	10mm ± 0.5 ppm	15mm ± 0.5 ppm	15mm ± 0.5 ppm	10mm ± 0.8 ppm	15mm ± 1 ppm	15mm ± 1 ppm	10mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm
RATE HZ		20	20	20	100	50	1-50	1-50	20	20	20
MEMORY		32Gb	8Gb	6Gb	32Gb	32Gb	16 Gb	16 Gb	16 Gb	8 Gb	8Gb
BLUETOOTH		√	√	√	√	√	√	√	√	√	√
WIFI		√	NO	√	√	√	√	√	√	√	√
WEB USER INTERFACE		√	NO	√	√	√	√	√	√	√	√
OS		Linux	NO	√	Linux	Linux	Linux	Linux	Linux	Linux	Linux
RADIO INTEGRATED 410 - 470 MHz		√	√	√	√	√	√	3 Watt	3 Watt	3 Watt	3 Watt
RADIO INTEGRATED 902.4 - 928 MHz		√	NO	NO	√	NO	NO	NO	NO	NO	NO
GSM INTEGRATED		4G	4G	4G	3G	4G	4G	4G	4G	4G	4G
DISPLAY INTEGRATED		√	NO	NO	NO	√	√	√	√	√	√
NFC		NO	NO	NO	NO	√	√	√	√	√	√
IMU		√	√	√	√	√	√	√	√	√	√
MAX TILT OPERATION		±60°	±30°	±30°	±15°	±30°	±30°	±60°	±60°	±60°	±60°
PORT FOR EXTERNAL ANTENNA		NO	NO	NO	√	NO	NO	NO	NO	NO	NO
1PPS		√	NO	NO	√	NO	NO	√	√	NO	NO
BATTERY CHANGE		NO	√	√	√	√	√	NO	NO	NO	NO
BATTERY CAPACITY (mAh)		10200	2800	3700	2900	3400	6800	10000	10000	10000	10000
OPERATING TIME (HOURS) STD BATTERY		9	8	6	9	8	10	12	12	15	15
NR. BATTERY		1	1	1	2	2	1	1	1	1	1
HOT SWAP		NO	NO	NO	√	√	NO	NO	NO	NO	NO
MATERIAL		Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
DIMENSION (mm)		151 x 94	173 x 173 x 109	119 x 136	115 x 115 x 131	159 x 150 x 110	158 x 98	165 x 108	165 x 108	166 x 96	166 x 97
WEIGHT		1400g	1230g	1120g	1000g	1260g	1300g	1350g	1350g	1300g	1300g
IP		67	66/68	67	67	67	67	68	68	68	68
MIL		NO	√	√	NO	√	√	NO	NO	NO	NO
OPERATING TEMPERATURE		-40° + 65°	-40° + 65°	-40° + 65°	-40° + 80°	-40° + 65°	-40° + 75°	-30° + 70°	-30° + 70°	-45° + 75°	-45° + 75°
CONTROLLER	Win Mobile	NO	CS20	TSC3	Allegro 2	NO	NO	NO	NO	NO	NO
	Win 10	UT20	CS35	TSC7 T7 T10x	FC-6000 FT-100	NO	NO	NO	NO	NO	NO
	Android	UT10 UT30 S40	NO	TDC600 TSC5	FC-6000A	HCE320 LT700	iHand30	H6 H8	H6 H8	H6 H8	H6 H8
SOFTWARE	Win Mobile	FieldGenius SurvCE	Captivate	Access	Magnet	NO	FieldGenius SurvCE	FieldGenius	FieldGenius	FieldGenius	FieldGenius
	Win 10	FieldGenius SurvCE	Captivate	Access	Magnet	NO	NO	NO	NO	NO	NO
	Android	Cube-a FieldGenius	NO	Access	NO	LandStar7	Hi-Survey Road	SurvX	SurvX	SurvX	SurvX
SOFTWARE POST PROCESSING		Cube-manager-p	LGO	TBC	Magnet Office	CGO2	HGO	SGO	Geo Office	Geo Office	Geo Office
PRESENTATION		2023	2017	2018	2016	2019	2022	2022	2022	2022	2022

Legend		Competitor is worst
		Competitor is better