













RTK GNSS April 2020									
									
MODEL		S980	VIVA GS18 T	R10	HiPer HR	i90	IRTK 5 new	K20s	Oscar Ultimate
CHANNELS		555	555	672	452	624	336	440 or 555	576
BOARD		NOV OEM729	NOV OEM719	TRI BD982	TOP Vanguard	TRI	TRI BD990	TRI or NOV	Tersus
SIGNALS TRACKING	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
	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
	BEIDOU	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	L1/L2	B1/B2/B3	B1/B2/B3	B1/B2/B3
	GALILEO	E1/ESA/E5B/AltBOC/E6	E1/ESA/E5B/AltBOC/E6	E1/ESA/E5B/AltBOC/E6	E1/ESA/E5B/AltBOC/E6	E1/ESA/E5B/AltBOC/E6	E1/ESA/E5B/AltBOC/E6	E1/ESA/E5B/AltBOC/E6	E1/ESA/E5B
	QZSS	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	NO	L1/L2C/L5
	L-BAND	NO	TerraStar	RTX	SkyBridge	NO	Hi-RTP	NO	NO
	IRNSS	L5	L5	L5	L5	NO	L5	NO	NO
SBAS	v	v	v	v	v	v	v	v	
BRIDGING OF RTK OUTAGES		NO	SmartLink fill	xFILL	NO	NO	NO	NO	NO
ACCURACY	Static H	3mm ± 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	3mm ± 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	3.5mm ± 0.4 ppm
	RTK H	8mm ± 1 ppm	8mm ± 0.5 ppm	8mm ± 0.5 ppm	5mm ± 0.5 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm
	RTK V	15mm ± 1 ppm	15mm ± 0.5 ppm	15mm ± 0.5 ppm	10mm ± 0.8 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm
RATE HZ	5	20	20	100	10	50	50	20	
MEMORY	32Gb	8Gb	4Gb	32Gb	32Gb	16 Gb	8 Gb	16Gb	
BLUETOOTH	v	v	v	v	v	v	v	v	
WiFi	v	NO	v	v	v	v	v	v	
WEB USER INTERFACE	v	NO	v	v	v	v	v	v	
OS	Linux	NO	NO	Linux	Linux	Linux	Linux	Linux	
RADIO INTEGRATED 410 - 470 MHz	5 Watt	v	v	v	5 watt	v	v	v	
RADIO INTEGRATED 902.4 - 928 MHz	NO	NO	NO	v	NO	NO	NO	NO	
GSM INTEGRATED	4G	4G	4G	4G	4G	4G	4G	4G	
DISPLAY INTEGRATED	v	NO	NO	NO	v	v	v	v	
NFC	NO	NO	NO	NO	v	v	v	v	
E-BUBBLE	v	v	v	v	v	v	v	v	
E-COMPASS	v	NO	v	v	NO	v	NO	NO	
IMU	v	v	NO	v	v	v	v	v	
MAX TILT OPERATION	±60°	±30°	±30°	±15°	±30°	±30°	±30°	±30°	
PORT FOR EXTERNAL ANTENNA	v	NO	NO	NO	NO	NO	NO	NO	
IPPS	v	NO	NO	NO	NO	NO	NO	NO	
BATTERY CHANGE	NO	v	v	v	v	v	v	v	
OPERATING TIME (HOURS) STD BATTERY	9	6	5	9	8	10	10	8	
NR. BATTERY	1	1	2	2	2	1	2	1	
HOT SWAP	NO	NO	NO	v	NO	NO	v	NO	
MATERIAL	Magnesium		Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	
WEIGHT	1400g	1200g	1200g	1000g	1260g	1200g	1330g	1400g	
IP	67	66/68	67	67	67	67	68	67	
MIL	NO	STD-810G	STD-810F	NO	NO	STD-810G	NO	NO	
OPERATING TEMPERATURE	- 40° + 65°	- 40° + 65°	- 40° + 65°	- 40° + 80°	- 40° + 65°	- 40° + 65°	- 45° + 75°	- 40° + 75°	
CONTROLLER	Win Mobile	NO	CS20	TSC3	FC-500 TESLA	NO	NO	X11 Pro	TC30
	Win 10	UT20	CS35	TSC7 T7 T10	FC-5000	NO	NO	NO	NO
	Android	UT10 UT30 S40	NO	NO	NO	HCE320 LT700	iHand30	H3Plus N80	TC20
SOFTWARE	Win Mobile	FieldGenius SurvCE	Captivate	Access	Magnet	NO	FieldGenius SurvCE	FieldGenius	FieldGenius
	Win 10	FieldGenius SurvCE	Captivate	Access	Magnet	NO	NO	NO	NO
	Android	Cube-a FieldGenius	NO	NO	NO	LandStar7	Hi-Survey Road	SurvX	Nuwa FieldGenius
SOFTWARE POST PROCESSING	Cube-manager-p	LGO	TBC	Magnet Office	CGO2	HGO	STC		
WARRANTY	2 Years	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	2 Years	
PRESENTATION	2020	2017	2018	2016	2019	2019	2019	2019	

Legend	 	Competitor is worst
	 	Competitor is better