

GNSS FOR REFERENCE STATION

															
UPDATE AUGUST 2019															
CHANNELS		SC2280	NET-G5	GNRS	GR-30	GR-50	Alloy	Nei90 Ti-1	AsteRx-U	SP90m	NET S9	N72	VNet8	M300 Pro	
SIGNALS TRACKING	GPS	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5	L1/L2/L2C/L5
	GLONASS	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3	L1/L2/L2C/L3
	BEIDOU	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	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3
	GALILEO	E1/ESA/ESB/ESAIRBOC/E6	E1/ESA/ESB/ESAIRBOC/E6	E1/ESA/ESB/ESAIRBOC/E6	E1/ESA/ESB/ESAIRBOC/E6	E1/ESA/ESB/ESAIRBOC/E6	E1/ESA/ESB/ESAIRBOC/E6	E1/ESA/ESB/ESAIRBOC/E6	E1/ESA/ESB/ESAIRBOC	E1/ESA/ESB/ESAIRBOC/E6	E1/ESA/ESB/ESAIRBOC/E6	E1/ESA/ESB/ESAIRBOC	E1/ESA/ESB/ESAIRBOC	E1/ESA/ESB/ESAIRBOC/E6	E1/ESA/ESB
	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	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5	L1/L2C/L5
ACCURACY	Static H	3mm ± 0.1 ppm	3mm ± 0.1 ppm	3mm ± 0.1 ppm	2.5mm ± 0.1 ppm	2.5mm ± 0.1 ppm	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 ± 0.1 ppm	2mm ± 0.5 ppm	
	Static V	3.5mm ± 0.4 ppm	3.5mm ± 0.4 ppm	3.5mm ± 0.4 ppm	0.5mm ± 0.4 ppm	0.5mm ± 0.4 ppm	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	3.5mm ± 0.4 ppm	4mm ± 0.5 ppm	
	RTK H	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm	8mm ± 1 ppm						
	RTK V	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm	15mm ± 1 ppm						
	RTK V	5(20Hz, 50Hz, 100Hz optional)	100	100	50	50	100	50	100	Optional	Optional	Optional	Optional	Optional	Optional
RADIO INTEGRATED		NO	NO	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
GSM INTEGRATED		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
EMBEDDED OPERATING SYSTEM		LINUX	LINUX	LINUX	NO	NO	NO	NO	NO	LINUX	NO	NO	LINUX	LINUX	
MEMORY		32 GB	32 GB	32 GB	8 GB SD	32 GB SD	24 GB	8 GB	8 GB	32 GB	32 GB	32 GB	64 GB	32 GB	
EXTERNAL MEMORY		NO LIMIT	NO LIMIT	NO LIMIT	NO	NO	1 TB	1 TB	NO LIMIT	NO	NO	1 TB	1 TB	1 TB	
STORAGE	PROPRIETARY FORMAT	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	RINEX	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	RINEX COMPRESSED	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	KMZ	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	BINEX	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
SUBDIVISION MEMORY		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
SIMULTANEOUS SESSIONS		5	5	5	12	12	12	12	12	12	12	12	12	5	
DISPLAY		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
POWER CONSUMPTION		4.5W	5.0 W	5.0 W	3.5 W	3.1 W	3.8 W	3.8 W	7 W	5.9 W	3.8 W	3.5 W	NO	3.5W	
VOLTAGE		9-28V	9-28V	9-28V	9-28V	10.5-28V	9-28V	9-28V	9-36V	9-36V	9-36V	9-36V	9-36V	9-36V	
INTEGRATED BATTERY		20 hours	20 hours	20 hours	24 hours	24 hours	15 hours	15 hours	NO	6 hours	15 hours	15 hours	20 hours	16 hours	
POWER PORT		1	2	2	2	2	2	2	NO	NO	3	3	1	1	
CONNECTIONS	SERIAL	2	3	3	1	2	4	3	3	3	1	3	3	2	
	USB	1	1	1	1	2	1	1	3	1	1	1	1	1	
	WiFi	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	BLUETOOTH	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	ETHERNET	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
EMAIL ALERT		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
INPUT-OUTPUT	PPS OUTPUT	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	EVENT INPUT	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	OSC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	SENSOR SUPPORT	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	NR PORT	10	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
ETHERNET	DHCP	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	AUTHENTICATION	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	HTTPS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	FTP PUSH	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	NTRIP	CLIENT	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
WEB USER INTERFACE	SERVER	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	SERVER	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
PROXY SUPPORT		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
WEIGHT		2kg	2 kg	2 kg	1.67 kg	2 kg	1.75 kg	1.75 kg	1.5 kg	1.7 kg	2.28 kg	2.10 kg	2.5kg	2.4kg	
IP		67	67	67	67	67	68	67	67	67	68	68	68	67	
OPERATING TEMPERATURE		-40° + 65°	-40° + 80° no battery -30° + 65° internal battery	-40° + 80° no battery -30° + 65° internal battery	-40° + 65°	-40° + 65°	-40° + 65°	-40° + 65°	-30° + 65°	-40° + 65°	-40° + 80°	-40° + 65°	-40° + 75°	-40° + 80°	
ANTENNA	ANTENNA CONNECTOR	TNC	T	T	TNC	TNC	TNC	TNC	TNC	TNC	TNC	TNC	TNC	TNC	
	CHOKE RING	SA1800 - SA1500	CR-G5 - PN-AS	CR-G5 - PN-AS	AR25 - AR20	AR25 - AR20	GNSS - TI - v2	GNSS - TI	PolaNt	CHOKE RING	CR3	C220GR	A220GR	AT500 - AT350	
	GEODETIC	A45	G5-A1	SA-300	AR-10	AR-10	ZEPHYR GEODETIC 3	ZEPHYR GEODETIC 2	PolaNt-x	SPGA	CR3	A220GR	CRNet	AT330	
SOFTWARE NETWORK		Cube-net	TOPNet	TOPNet	SPIDERNET	SPIDERNET	VR3Net	VR3Net	Geo++	VR3Net	CRNet	CRNet	CDC.Net	CDC.Net	
PRESENTATION		2019	2014	2015	2016	2016	2018	2013	2017	2017	2016	2018	2016		