

OSR
reference

3G+C
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REFERENCE STATION



Technical Data

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GNSS	Dual- or Triple-Frequency Geodetic Quality Full Cycle Code and Carrier Phase for GPS, GLONASS, GALILEO. BEIDOU ready.
Channels	Up to 1000 Channels depending on config. for simultaneous multi-channel tracking of all visible satellites (Up to 4000 search channels)
Signals Tracked	GPS (L1 C/A, L2C, L2P, L5) GLONASS (L1 C/A, L2 C/A, L3) Galileo (E1, E5a, E5b) SBAS (WAAS, EGNOS, MSAS, GAGAN) Upgradeable to Beidou, COMPASS, future L-band constellations and pseudolites
Update Rate	user selectable up to 50Hz
Formats	RTCM 3.x, CMR, CMR+, RINEX 3.x
Processor	ARM A9 Dual Core Processor 1 GHz, Windows or Linux OS 1GB RAM, 8GB eMMC
Ports	2 x Serial Ports, 1 x USB, 1 x Ethernet 3 x Antenna ports, 1 x Power
Modem	Cellular Modem, GSM/GPRS or CDMA, UHF Radio with 330 - 420 MHz & 403 - 473 MHz bands
Memory	64GB SSD Internal Memory
Power	9 - 32 VDC
Dimensions	26 cm x 15 cm x 6 cm
Environmental	IP67, RoHS Operation temperature -40°C to +85°C Storage temperature -40°C to +85°C
Accuracy	Static and fast static Measurements Horizontal +/-3mm + 0,1ppm RMS Vertical +/-3,5mm + 0,4ppm RMS Kinematic measurement RTK Horizontal +/- 8mm + 1ppm RMS Vertical +/-15mm + 1ppm RMS

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Bandwidth	1150 - 1300 MHz 1525 - 1610 MHz
Galileo Frequencies	All
GPS Frequencies	All
GLONASS Frequencies	All
BeiDou Frequencies	All
L-Band Correction Data Signals	All
Active Gain	48 dB
Passive Gain	4,5 dbic
Polarisation	RHCP
VSWR (max)	1,5:1
VRV	> 13 dB
XPD	> 15 dB
10 dB Beamwidth	170° - 180°
Axial Ratio	3 dB (max)
LNA Noise factor	< 2 dB
Power	3,3 - 20 Volt
Current Draw	< 50 mA
Operating temperature	-45° - 85° C
Connector type	TNC
Dimensions Width	172 mm
Height	121 mm
Weight	385 g
100% Water-/Dust-proof	IP69K
MIL-STD	810g



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