

N2 – Exact Data Extraction (Approved)

Details

- Powered by Septentrio Mosaic X5
- 1,706 channels
- GPS, GALILEO, BEIDOU, GLONASS, QZSS, SBAS
- Supports GALILEO L-band PPP SECOX
- Powerful IMU, supports 60° tilt measure
- Camera for AR stakeout
- Network module LTE-FDD, LTE-TDD, UMTS, GSM
- Rx/Tx internal radio, 2W output
- Type-C fast charge + 5-pin LEMO
- 6,800mAh Li-ion battery
- IP68 water and dustproof

Specifications

Satellite Performance

Channels	1760
GPS:	L1C/A, L1C, L2C, L2P, L5
GLONASS:	L1C/A, L2C/A, L3 CDMA
BEIDOU:	B1I, B1C, B2a, B2b, B3
GALILEO:	E1, E5a, E5b, E5 AltBoc, E6
QZSS:	L1, L1C, L2C, L5, L6
SBAS:	L5
L-Band:	1–100Hz

Accuracy

Code Differential (H):	H: 0.40m (RMS)
Code Differential (V):	V: 0.80m (RMS)
Static (H)	2.5mm + 0.5ppm (RMS)
Static (V)	5mm + 0.5ppm (RMS)

RTK (H)	8mm + 1ppm (RMS)
RTK (V)	15mm + 1ppm (RMS)
Network PPK (H)	3mm + 1ppm (RMS)
Network PPK (V)	5mm + 1ppm (RMS)
IMU measurement	
Tilt angle:	60°
Accuracy:	<2cm within 60°
Camera	
Field of View:	83.4°
Pixel:	2.0
Focal Length:	2m
Resolving Power:	1,920×1,080
Interface	
Button:	1
LED Indicator:	Data Link, Satellite, Bluetooth, Power
Communication	
I/O:	Type-C (Fast Charge + Ethernet), 5-pin LEMO
UHF Radio:	2W Tx/Rx, 410–470MHz
Protocol:	TrimTalk, Satel, etc.
WiFi:	2.4G/5G, 802.11 a/b/g
Bluetooth:	Bluetooth 5.0, BLE
NFC:	Available

Data storage	
Type & Storage:	SSD 8GB
Data Transfer:	External USB Pen Drive, Type-C USB Transfer
Differential Format:	RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM 3.3, RTCM 3.4, NMEA 0183
GPS Output Format:	VRS, FKP, MAC
Network Module:	Nano-SIM card, LTE-FDD, LTE-TDD, UMTS, GSM
Power supply	
Battery:	Internal Li-ion Battery
Voltage / Capacity:	7.2V / 6,800mAh
Operating Time:	Static mode: 20h; Rover mode: 15h
Rover mode: 15h	
Physical	
Dimension:	74mm × 128mm
Weight:	740g
Operating Temp:	-40°C to +65°C
Proof:	IP68
Humidity:	99.9% non-condensing
Drop:	1.8m drop on hard surface
Shock:	40G, 10ms sawtooth wave