

EDGE1

GNSS Base Station + Edge Computer



MAPS & POINT CLOUDS IN 30 MINUTES

2D maps and 3D data with automated object removal, no uploading required

GNSS RTK BASE STATION

Dual-frequency GNSS RTK delivering reliable 5 cm accuracy

LOCALIZED DATA

RTK and GCP processing in your local coordinate system

AI ON THE EDGE

Run AI models to produce real-time predictions in the field

EDGE¹

TECHNICAL SPECIFICATIONS

OVERALL	
Dimensions	Height: 20 cm Width: 16 cm
Compute Module	NVIDIA TX2
Weight	1.9 kg
Operating Temperature	0° to 60°C
GPU	NVIDIA Pascal™ 256 CUDA cores
CPU	HMP Dual Denver 2/2 MB L2 Quad ARM® A57/2 MB L2
Memory	8 GB 128 bit LPDDR4 59.7 GB/s
Storage	256GB SSD
Bolt Attachment	5/8"-11

BATTERY	
Capacity	13.6 mAh
Voltage	11.1 V
Type	Lithium Ion
Net Weight	4.57 kg
Charging Temperature	0°C to 40°C
Max. Charging Power	76 W

ELECTRICAL & I/O	
Input Voltage	9 V DC
Typical Power Consumption	15 W
Ethernet Support	Up to 100 Mbps
USB Support	1x USB 2.0 (1 Device, 1 Host) 1x USB 3.0 (1 Device, 1 Host)
Memory Port	Micro SD

GNSS RECEIVER	
GNSS CHARACTERISTICS	
Measurements (Raw Data)	Up to 20 Hz
Standard Position Outputs	Up to 20 Hz
RTK Position Outputs	Up to 10 Hz
Receiver	Dual Frequency GNSS GPS L1/L2 GLONASS G1/G2
POSITION PERFORMANCE SPECIFICATIONS	
Horizontal Position Accuracy (CEP 50 in SPP Mode)	2.5 m
Real Time Kinematic (RTK Accuracy 1σ)	Horizontal: 0.010 m + 1 ppm Vertical: 0.015 m + 1 ppm

LTE MODEM	
NORTH AMERICA	LTE bands: 2, 4, 5, 13, 17 UMTS bands: 850, 1900 GSM bands: N/A
EMEA	LTE bands: 1, 3, 5, 7, 8, 20 UMTS bands: 850, 900, 1900, 2100 GSM bands: Quad-band
APAC	LTE bands: 1, 3, 5, 7, 8, 28 UMTS bands: 850, 900, 1900, 2100 GSM bands: Quad-band
JAPAN	LTE bands: 1, 3, 5, 8, 19 UMTS bands: 850, 900, 1900, 2100 GSM bands: N/A

WIRELESS	
WiFi	2.4Ghz, 802.11b/g/n
LTE	2FF - Mini SIM