

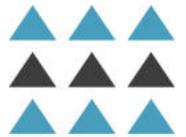
REBOTNIX[®]
INDUSTRIAL A.I. SOLUTIONS

ADDON - GPS

DOCUMENT VERSION 1.0.2

SKU: RB_AOGPSU

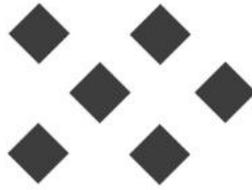
ABOUT ADDON - GPS (USB)



The RTK-GPS Add-On by REBOTNIX delivers centimeter-level positioning accuracy in a sleek, compact package – even in challenging environments.

At its core is a high-performance RTK-GPS module supporting GPS, GLONASS, Galileo, BeiDou, and QZSS with navigation update rates of up to 30 Hz. The durable black anodized aluminum housing protects the technology from environmental influences while maintaining a modern, premium appearance.

The module is powered and connected via a single USB-C cable, making integration into existing REBOTNIX edge systems quick and effortless. Fully CE and FCC certified, it meets international standards for safety and electromagnetic compatibility.



SPEZIFICATIONS

ELEKTRICAL SPECIFICATIONS

DC voltage input	5V DC via USB-C
Power consumption	150mA

ENVIRONMENTAL SPECIFICATIONS:

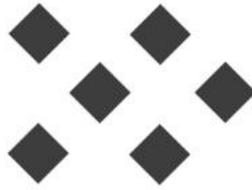
Temperature range	-20°C up to 70°C
Humidity	Non-condensing

INTERFACES & CONNECTORS

USB	1xUSB 2.0 Type-C Socket
ANT1	SMA Socket
ANT2	SMA Socket

POSITIONING – RTK GNSS

GNSS	GPS, GLONASS, Galileo, BeiDou, QZSS, NavIC
Navigation Update Rate	Up to 30 Hz
Position Accuracy	RTK < 0.01 m



SUPPORTED GNSS MODULES

MODULE COMPARISON - ZED-F9P / ZED-F9R / ZED-X20P

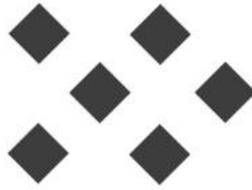
Feature	ZED-F9P	ZED-F9R	ZED-X20P
Main Function	High Precision RTK GNSS	High Precision RTK + Dead Reckoning	All-Band High Precision RTK
Constellations	GPS, GLONASS, Galileo, BeiDou, QZSS, NavIC	GPS, GLONASS, Galileo, BeiDou, QZSS	GPS, GLONASS, Galileo, BeiDou, QZSS, NavIC
IMU/Sensor Fusion	No	Yes (integrated IMU)	No
RTK Accuracy	0.01m + 1ppm CEP	0.01m + 1ppm CEP	0.01m + 1ppm CEP
Update Rate (RTK)	Up to 20 Hz	Up to 4 Hz (30 Hz IMU-only)	Up to 25 Hz
Key Advantage	Standard RTK positioning	Positioning without GPS signal	All GNSS bands supported

MODULE SHORT DESCRIPTION

ZED-F9P - High-precision multi-band GNSS with RTK, centimeter-level accuracy

ZED-F9R - ZED-F9P with integrated IMU for dead-reckoning during GNSS outages

ZED-X20P - Next-generation multi-band GNSS supporting all major GNSS frequencies

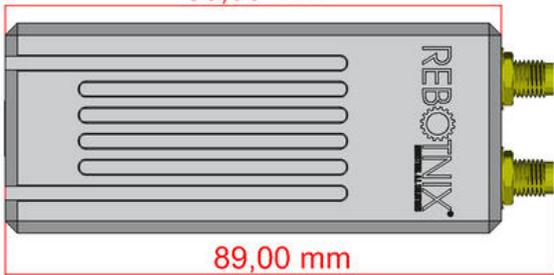


TECHNICAL SPECIFICATIONS

Dimensions	80mm x 34mm x 17,5mm (without Antennas)
Weight	100g
Housing	Black anodized aluminum

FRONTSIDE

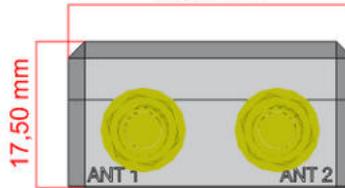
80,00 mm



89,00 mm

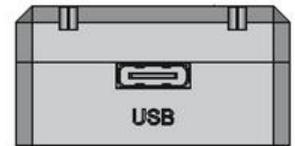
TOPSIDE

34,00 mm



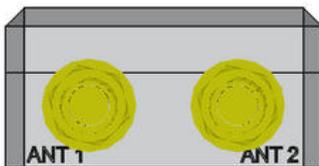
17,50 mm

BOTTOMSIDE

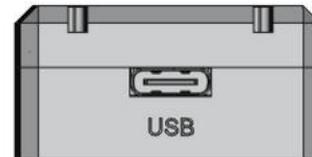


CONNECTIVITY

TOPSIDE



BOTTOMSIDE



ANT1



ANT1 - SMA Socket

Socket for a GPS antenna for signal transmission.

USB



USB - USB Type-C Socket

This socket is used for both power supply and data transfer via a USB-C cable.

ANT2



ANT2 - SMA Socket

The ANT2 connector serves as a TP (TimePulse) input for external devices that provide a GPS-synchronized timing signal. (Only with the ZED-F9R module.)