GEOBOX FORA B2 GNSS Receiver

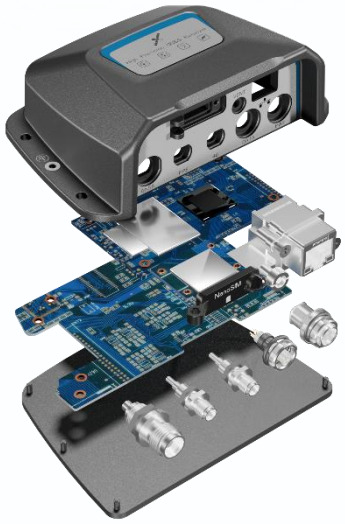
FORA B2 is a cost-effective and miniaturized GNSS receiver designed for the construction of CORS system. It has built-in Linux operating system, completely independent intellectual property development, rich interface types, diverse communication methods, and supports large-capacity data storage. It is the best choice for the construction of the CORS system.



Characteristic

Linux Intelligent System

ARM Cortex-A7 + Linux, the intelligent system platform, brings efficient computing and unlimited expansion of product functions to users.



Multi Constellation

With its 1408 channels, FORA B2 provides an excellent on board real time navigation solution with high accuracy. All GNSS signals (GPS, GLONASS, BDS, GALILEO, QZSS and SBAS) are included.

Rich Interfaces & Various Communication Methods

FORA B2 provides Ethernet, serial and mobile network interfaces for customers to choose.

Compatible with Multiple Protocols

FORA B2 supports Ntrip Client/Server/Caster, TCP Client/Server connection, FTP protocol file transfer, HTTP/HTTPS protocol, private network transfer function with protection policy.

Cloud Service Function

FORA B2 can regularly report the device status such as device location, network status, signal strength, satellite reception status, etc., and supports cloud platform to restart, reset, and upgrade the remote device.

Support Front-end Solution

FORA B2 supports the front-end calculation function which can complete the static data calculation on the device inside and upload the results to the cloud, which greatly reduces the requirements for the computing power of the cloud server.

ITEM		SPECIFICATION	REMARKS
HARDWARE SYSTEM		**ARM Cortex-A7 1.8GHz**	
OS		**Linux**	
GNSS	GPS	L1C/A, L1C, L2P(Y), L2C, L5	PPP-B2b, PPP-E6, SBAS supported
	GLONASS	L1, L2, L3	
	BDS	B1I, B2I, B3I, B1C, B2a, B2b	
	GALILEO	E1, E5a, E5b, E6	
	QZSS	L1, L2, L5	
	SBAS	L1	
	NavIC (IRNSS)*	L5*	Requires firmware support

GEOBOX FORA B2 GNSS Receiver

	Channel	1408	
	Differential Observation Accuracy (RMS)	10.0cm	
	Kinematic Phase Observation Accuracy (RMS)	1.0cm	
	Data format	RINEX, Custom	
	Position Data	NMEA-0183	
	Differential Data	RTCM 3.X	
	Data update frequency	1Hz, 2Hz, 5Hz, 10Hz, 20Hz	
	Receive Data Availability	⩾98%(Data available/Data collected)	
	Data Integrity	⩾98%(Data collected/Data should be collected)	
	Single (RMS)	Horizontal: 1.5m; Vertical: 2.5m	
	RTK(RMS)	Horizontal: ±(8mm+1ppm) Vertical: ±(15mm+1ppm)	
	Static Accuracy (RMS)	Horizontal: ±(2.5mm+0.5ppm) Vertical: ±(5mm+0.5ppm)	
	Time Accuracy (RMS)	20ns	
SYSTEM	Serial Port	Standard RS232 interface, Baud rate supports 1200, 2400, 4800, 9600, 19200, 38400, 115200, 230400bps	
	Network port	Standard RJ45 interface, 10/100Mbps network adaptive	
	USB	Integrated on the 7-pin interface, support access to the computer to copy data directly	
	Network Communication (Full Netcom)	LTE FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28 LTE TDD: B38/39/40/41 WCDMA: B1/2/4/5/6/8/19 GSM: B2/3/5/8	
	Interface	PWE*1: Power supply port DATA*1 PPS*1 SIM*1: Nano SIM card Ethernet*1 GNSS*1: Main antenna 4G*1: 4G antenna port	
	Storage	32GB, circular storage support multi-channel storage	
ELECTRICAL CHARACTERISTIC	Voltage Input	9-24V DC (12V typical)	
	power dissipation	1.8W(typ)	
ENVIRONMENT	Operating Temperature	-40~+85℃	
	Storage Temperature	-40~+85℃	
	Protection Class	IP68	
PHYSICAL	Material	Magnesium alloy main body	
	Dimension	148.8mm*105mm* 50.3mm	
	Weight	490g	

▲ Manufacturers may update parameters at any time, please refer to the latest product information.