

SATELLITES TRACKING

Channels	1408
BDS	B1I, B2I, B3I, B1C, B2a, B2b*
GPS	L1C/A, L1C*, L2C, L2P(Y), L5
GLONASS	G1, G2, G3*
Galileo	E1, E5a, E5b, E6
QZSS	L1C/A, L1C*, L2C, L5
NavIC	L5*
SBAS	WAAS, EGNOS, SDCM, BDSBAS, GAGAN
Cold start	<30s
RTK Initialization Time	<5s(typical)
RTK initialization reliability	>99.9%
Re-acquisition	<1s

ACCURACY

Standalone	1.5m Horizontally 2.5m Vertically
DGPS	0.4m Horizontally 0.8m Vertically
Static post-processing	2.5mm+0.5ppm Horizontally 5mm+0.5ppm Vertically
RTK	8mm+1ppm Horizontally 15mm+1ppm Vertically
SBAS	< 1.0 m 3D RMS
Time Accuracy	20ns

TILT FUNCTION (PLUS MODEL ONLY)

Tilt range	60° tilt range
Tilt survey accuracy	±2.5cm within 60° tilt range
IMU Initialization time	5s

COMMUNICATION

Bluetooth	BT4.2 BR/EDR
WiFi	802.11 b/g/n
4G	LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD: B38/B40/B41 GSM: Band 850/900/1800/1900 MHz

ELECTRICAL

Battery	4000mAh
Input Voltage	5V, 2A

PHYSICAL

Size	135*70*22mm (L*W*H)
Weight	199 g

FUNCTIONALITY

Visual Alert	Two bright lights flash to provide a warning signal
Auditory Alert	Emits a loud and distinctive sound as an alert
vibration alert	The wearable vibrates vigorously to alert the wearer.
UWB	Reserved

ENVIRONMENTAL

Waterproof & dustproof	IP67
Shock	1.5 m drop onto concrete
Operating temperature	-20 °C to + 60 °C
Storage temperature	-20 °C to + 60 °C
Humidity	100% non-condensing

APPLICATION

- Land Surveying
- Construction Safety
- Geographical information collection
- Personnel positioning
- Vehicle trajectory tracking
- Inspection and investigation
- Other high precision applications

* Signals marked with * are supported only by the P2 Plus model.

All specifications are subject to change without notice.

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P2

GNSS SAFETY SOLUTION

Smart Alerts, Safer Work – Your Safety Guardian



P2 GNSS SAFETY SOLUTION

In a wide range of applications such as construction, railway, and inspection, ensuring the safety of personnel is paramount. SingularXYZ has integrated high-precision GNSS technology into this critical area, introducing the effective P2 GNSS Safety Solution.

This solution guarantees a more secure working environment through centimeter-level positioning, alert functions and a geo-fence platform. Additionally, it offers extensive customization options for tailored needs.





Wearable Design



Centimeter-Level Positioning

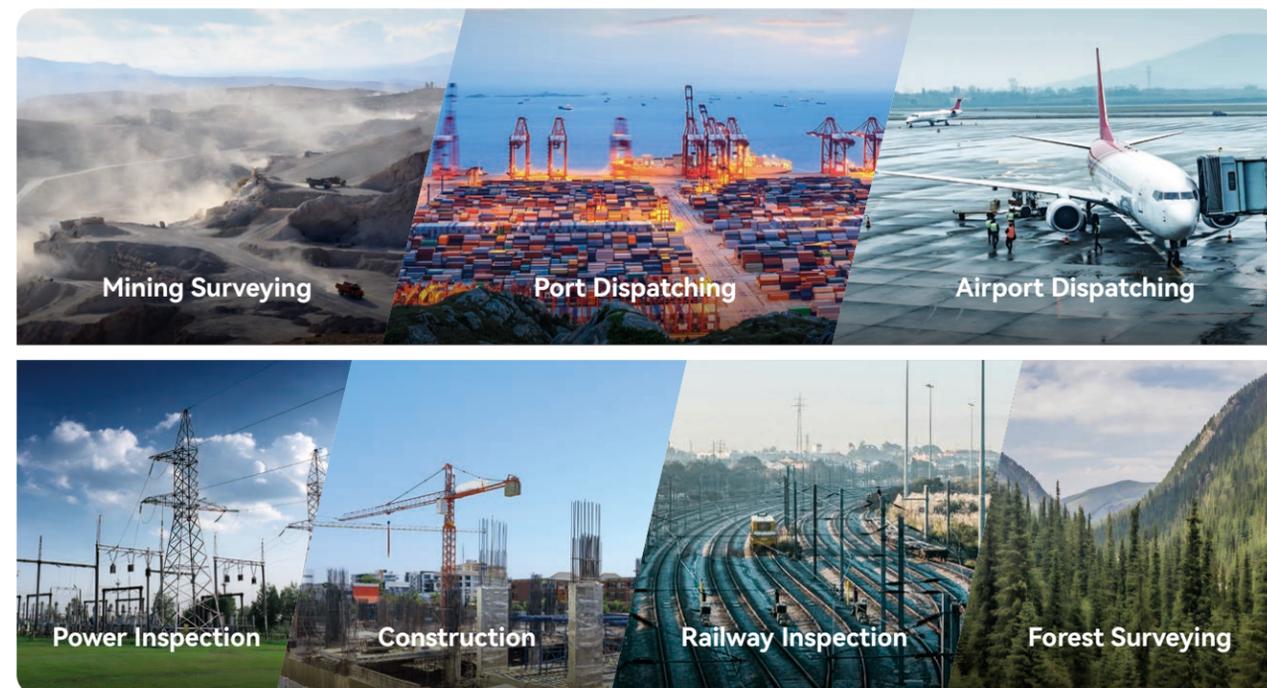
4G
Transmission

10Hrs
Battery Life

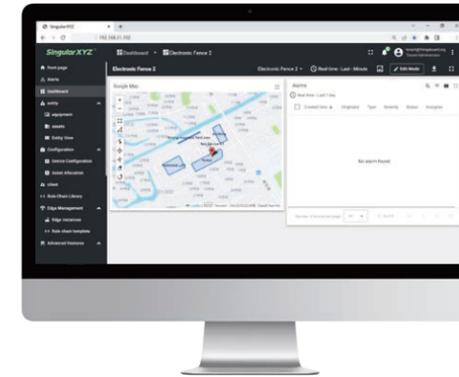
IP67
Protection

Triple Safety Alerts
Voice, Vibration, Light

APPLICATIONS



CUSTOMIZED CLOUD MANAGEMENT PLATFORM



- Comprehensive Device Management
- Remote Upgrade & Configuration
- Real-time Status & Position Monitoring
- Highly Customizable Solutions

Customized Functions of SingularThings



FIELD TERMINAL CONFIGURATION SOFTWARE



- Bluetooth Connection
- Work Mode Configuration
- Device Status Checking
- Firmware Upgrade