# Leica Zeno FLX100 Smart Antenna

## Data sheet


Location data is a commodity that underpins decision making no matter the industry.
The Leica Zeno FLX100 smart antenna captures spatial data in a simple and flexible way allowing you the freedom to work how you want.
A universal handheld tray enables you to pair the FLX100 with your own smartphone or tablet. For higher accuracy data capture just use a survey pole leveraging HxGN SmartNet RTK technology.
Use Leica Zeno Mobile for the ultimate experience in professional data capture or pair with Leica Zeno Connect to enable high accuracy positioning in other data collection apps on various operating systems.

**Leica FLX100, is your flexible solution from a trusted partner.**

**LEICA ZENO FLX100 SMART ANTENNA:**

- **GIS data collection made easy:** Simplify your workflows and unfold new ways of working.
- **Centimetre accuracy compact GNSS:** Real multifrequency tracking with accuracy <2 cm horizontal (2D) accuracy in an ultra-portable housing.
- **Build your GIS handheld solution:** Pair the FLX100 with the universal handheld tray and your mobile device to create the handheld solution that fits your needs.
- **Use any Android or Windows mobile device:** The FLX100 is compatible with devices running Windows or Android.
- **Use Zeno Mobile or any other data collection app:** Combine with Zeno Mobile or expand the possibilities in your selected 3rd party software.
- **Rugged, made for tough worksites:** Be ready to face the toughest conditions. The FLX100 is protected against water, dust and drops from 1.2 meters.
- **Leica Geosystems support and service:** Benefit from 2 years of warranty and Leica's professional service and support.

# Leica Zeno FLX100 Smart Antenna

| GNSS TECHNOLOGY | |
|---|---|
| Horizontal real-time accuracy | RTK (Multi-frequency): 2cm + 1ppm* |
| Vertical real-time accuracy | RTK (Multi-frequency): 3cm + 1ppm* |
| Post-processing accuracy static mode | Horizontal: 2cm + 1ppm*<br>Vertical: 3cm + 1ppm* |
| Satellite signal tracking | ■ GPS (L1 C/A, L2C)<br>■ Glonass (L1OF, L2OF)<br>■ BeiDou (B1I, B2I)<br>■ Galileo (E1B/C, E5b)<br>■ QZSS (L1C/A, L2C)<br>■ SBAS: enabled through future firmware update |
| Number of channels | 184 channels |
| Update rate | Up to 10 Hz (0.10 sec) |
| Supported operating systems | ■ Android<br>■ Windows |
| Real-time protocols | RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM 3.3, RTCM MSM |
| GNSS initialization | ■ Cold Start: 24s<br>■ Reaquisition: 2s |
| User interface | On/Off key Status indicator (LED): satellite tracking, corrections, Bluetooth® communication and battery power |
| Communication port | Bluetooth® LE 4.2 |

| POWER MANAGEMENT | |
|---|---|
| Battery | Internal (3.8 V / 6120 mAh) |
| Battery charging time | 4 hours to full charge |
| Power | DC 5V/2A |
| Operating time | >20 hours |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Weight and dimensions | 313g, 136 mm x 78 mm x 30.5 mm |
| Proof against water, sand and dust | IP67 |
| Operating/Storage temperature range | ■ Operating: –40 to 65°C<br>■ Storage: –40 to 80°C |
| Humidity | Rarely and slightly condensing. ISO 9022-12-04 (+65°C, 92%, 62h) |
| Drop | 1.2m |
| Vibration | Withstands strong vibration. ISO 9022-36-05 (10-55 Hz / ±0.15 mm / 5 cycles) |

Zeno

| GG04 PLUS SMART ANTENNA | LEICA ZENO TAB 2 | ZENO MOBILE |
|---|---|---|
| Survey grade GNSS receiver.<br>RTK, Multi-constellation, Multi-frequency<br>1cm + 1ppm<br>Multipath mitigation | Android 8.0 | Intuitive feature editing and attribute entry |
| GPS, GLONASS, Galileo, BeiDou, QZSS, SBAS | 8" sunlight readable screen (1280 x 800) | Professional multi-collect and stakeout tools available |
| iOS, Android and Windows support | IP67 & 1.2 m drop resistant, MIL-STD-810G, MIL-STD-461F | Create and connect to RTK sources |
| Precise Point Positioning (PPP) for cm level accuracy without Internet connection. | GSM, Wi-Fi, Bluetooth®, NFC | Comprehensive coordinate system support and configuration |

* Measurement precision under good to favourable conditions. Accuracy and reliability depend upon various factors including number of available satellites, geometry, proximity to base station, multipath effects, ionospheric conditions, etc



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- when it has to be **right**

Leica Geosystems