

1. SYSTEM OVERVIEW

The **Xtometer** marks a significant leap forward in precision surveying hardware. Developed specifically to work with the **XT200 platform architecture**, this add-on upgrades your existing standard RTK DGPS instruments directly into full **Laser RTK units**.

By merging laser distance parameters straight into the carrier-phase GNSS telemetry workflow, users can seamlessly offset target entries over locations where safe rover rod positioning is impossible.

#LaserRTK #XT200Compatible #DGPSUpgrade

2. ELECTRICAL PROFILE & POWER MANAGEMENT

Parameter Name	Nominal	Max	Unit
Input Voltage Supply	5.0	5.25	V DC
Operating / Charging Current	350	500	mA
Internal Storage Cell	3500	—	mAh
Continuous Field Lifespan	14	16	Hours
Hardware Charging Core	Weather-Sealed USB Type-C		

3. CONNECTION PROTOCOLS

Interface Protocol	Operational Capability
Wireless Layer	Bluetooth® 5.0 Core Protocol Stack
Data Pipeline	NMEA-Compliant Payload Injection
Range Bounds	10m – 15m Field Link Integrity
Update Frequency	Up to 10 Hz Dynamic Telemetry



RUGGED XTOMETER FIELD UNIT

4. KEY ADVANTAGES

Bespoke XT200 Handshake

Tailored directly for immediate plug-and-play linking with the XT200 base controller telemetry.

Advanced Offset Surveying

Log accurate location tags across open utility trenches, structural edges, or hazardous obstacles safely.

Industrial Form-Factor

Designed with premium tactile deployment triggers, durable composite housing, and distinct status rings.

Extended Operation Window

The 3500mAh internal reserve combined with Bluetooth LE allows over a full shift of continuous tracking.