

T3-NR

JAVAD Tech. Inside | Made in India



PREMIUM ALL-CONSTELLATION GNSS SMART ANTENNA

RTK PRECISION | COMPACT RUGGED DESIGN | FLEXIBLE CONNECTIVITY

- ✓ MULTI-CONSTELLATION GNSS ENGINE
- ✓ RTK WITH MEMS IMU ENGINE
- ✓ 6 VISUAL SIGNAL INDICATORS
- ✓ 25-HOUR DAY-PLUS POWER
- ✓ IP68 RUGGED HOUSING
- ✓ 100 HZ UPDATE RATE

The T3-NR is a compact, high-precision GNSS smart antenna engineered for professional surveyors who demand reliability, accuracy, and efficiency in every environment.

Featuring advanced multi-constellation GNSS tracking, fast RTK initialization, and a lightweight rugged design, T3-NR is ideal for Network RTK rover, PPK, and static survey applications.

Technical Specifications

Satellite Tracking:

Channels 874 total

Supported Systems

- GPS: L1 C/A, L1C, P1, P2, L2C, L5
- GLONASS: L1 C/A, P1, P2, L2 C/A, L3
- Galileo: E1, E5 (a/b), E6
- BeiDou: B1I, B1C, B2, B2a, B2b
- QZSS: L1C C/A, L1C, L2C, L5, L6, L1S, L1Sb, L5S
- SBAS: L1
- NavIC: L1, L5
- L-Band: 1525–1560 MHz

Positioning Accuracy: (Horizontal / Vertical)

Autonomous 1.0 m / 1.5 m

SBAS 0.5 m / 0.85 m

DGPS 0.25 m / 0.5 m

PPP (J-Star) 0.025 m / 0.05 m

RTK 0.008 ± 1 ppm / 0.015 ± 1 ppm

Network RTK 0.008 ± 0.5 ppm / 0.015 ± 0.5 ppm

Static / Fast Static 0.003 ± 0.1 ppm / 0.035 ± 0.4 ppm

Tilt RTK RTK ± 5 mm + 0.5 mm/° tilt (up to 30°)

Initialization & Update Rate:

Startup Time

- Cold: < 35 s
- Warm: < 5 s
- Reacquisition: < 1 s
- RTK Fix: 2–6 s

Refresh Rate

- Position/Heading: up to 10 Hz
- Raw Data: up to 100 Hz

Connectivity:

Wireless

- Wi-Fi: 2.4 & 5 GHz (802.11 a/b/g/n)
- Bluetooth: v5.1, Class 2

Wired

- USB 2.0 micro-B (Host/Device)

Antenna & Storage:

GNSS Antenna Internal microstrip, flat ground plane

Memory 64 GB internal flash

Interface & Controls:

LED Indicators Battery, Power, Bluetooth, Wi-Fi, Satellite Lock, Mode, Recording

Buttons Power On/Off, Record On/Off

Power Specifications:

Connector 3.5 mm jack

Input Voltage 10–30 VDC

Battery Rechargeable Li-Ion (637 Wh)

Operating Time Up to 25 hours

Physical Characteristics:

Housing Plastic top, metal base

Size 132 × 85 × 61 mm (5.20 × 3.34 × 2.40 in)

Weight 0.63 kg (1.39 lbs)

Environmental Tolerance:

Operating Temp -40°C to +60°C

Storage Temp -45°C to +85°C

Humidity 100% condensing

Shock/Vibration MIL-STD-810H, survives 2 m drop

Protection IP68 rated

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*All specifications and illustrations are indicative and may be updated without notice.