

## GNSS Receiver



### Better form and function

The GNSS receiver is versatile and rugged, designed with the advanced GNSS technology delivering precise measurements in the most challenging of environments.

Patented Universal Tracking Channels technology provides the industry's most efficient approach in identifying and using satellite signals. All constellation signals are tracked automatically from any available channel. Thus, operations can reach maximum performance with a reduced number of channels.



### Smart Construction Remote

The GNSS Receiver and FC6000 can integrate seamlessly with Smart Construction Remote software. It enables you to:

- Transfer design files quickly
- Remotely support users by viewing their screens and activities

Download Smart Construction Remote Mobile to easily pair to your mobile device.

*Cellular data charges apply*



## GNSS technologies (signal tracking)

GPS	L1 C/A, L1C, L1P(Y), L2P(Y), L2C, L5
GLONASS	L1 C/A, L1P, L2C/A, L2P, L3C
Galileo	E1, E5a, E5b, E5 AltBOC
BeiDou	B1, B2
IRNSS (NavIC)	SPS-L5
SBAS	WAAS, EGNOS, MSAS
QZSS	L1 C/A, L1C, L2C, L5
L-band	Yes
Universal tracking channels	226 GNSS channels Vanguard Technology with Universal Tracking Channels; 2 reserved for L-band
GNSS antenna	Integrated full wave Fence Antenna technology with internal ground plane

## Positioning performance

Precision static	H: 3 mm + 0.1 ppm	V: 3.5 mm + 0.4 ppm
Static/Fast static*	H: 3 mm + 0.4 ppm	V: 5 mm + 0.5 ppm
RTK	H: 5 mm + 0.5 ppm	V: 10 mm + 0.8 ppm
Code differential GNSS	H: <0.25 m   V: <0.50 m	

## GNSS technologies (signal tracking)

GPS	405–470 MHz UHF Max transmit power: 1W Range: 5–7 km typical; 15 km in optimal conditions.**
Cellular	Optional 4G internal cellular module
LongLink™	Up to 328.1 m / 1000 ft
Bluetooth™	Yes
Ports	1 serial, 1 USB, 3 connectors

## Data format and memory

Data output	TPS, RTCM, CMR/CMR+, NMEA, BINEX
Internal memory	8 GB
Update rate	Up to 20 Hz
BeiDou	B1, B2

## Power

External power supply	9.0–27.0V DC
Battery	Li-ion 11,600 mAh, 3.7V
Operating time with radio	RX mode – 10 hr TX mode 1W – 6 hr Use of external 12V battery is recommended when using as a base

## Hardware

Dimensions (W x H)	5.86 in x 3.72 in (14.88 cm x 9.45 cm)
Weight	2.34 lb (1.061 kg)
Ingress protection	Dust and water IP67
Vibration	MIL-STD-810G
Drop	Survive 2m pole drop on concrete surface
Operating temperature	-40° F to +149° F (-40° C to +65° C)
Humidity	100%

\* Under nominal observing conditions and strict processing methods, including use of dual frequency GPS, precise ephemerides, calm ionospheric conditions, approved antenna calibration, unobstructed visibility above 10 degrees and an observation duration of at least 3 hours (dependent on baseline length).

\*\* Varies with terrain and operating conditions (UHF radio only).

Product designs, specifications and/or data in this document are provided for informational purposes only and are not warranties of any kind. Product designs and/or specifications may be changed at any time without notice. The only warranties that apply to sales of products and services are Komatsu's standard written warranties, which will be furnished upon request.

Komatsu and other trademarks and service marks used herein are the property of Komatsu Ltd., Komatsu America Corp., Komatsu Mining Corp., or one of their affiliates, or the respective owners or licensees.

**KOMATSU**  
komatsu.com

