

HIPER HR MULTI-PURPOSE GNSS RECEIVER





Better things in smaller packages

The HiPer HR is smaller and lighter, but don't let it's small size fool you. It's not only packed with the most advanced GNSS technology, it is also built to withstand the harshest field environments. The HiPer HR is built with a rugged magnesium-alloy housing, not weak plastic, so it can take the punishment of the job site.

Using Topcon's patented Fence Antenna™ design and advanced GNSS chipset with Universal Tracking Channel technology, the receiver automatically tracks each and every satellite signal above – now and into the future.

All signals, all satellites, all constellations — All in a compact, rugged design, with an integrated IMU and eCompass. Only available on the Topcon HiPer HR.

TILT™- Topcon Integrated Leveling Technology

The HiPer HR incorporates a revolutionary 9-axis Inertial Measuring Unit (IMU) and an ultra-compact 3-axis eCompass. This advanced technology compensates for mis-leveled field measurements out of plumb by as much as 15°.

Awkward shots on steep slopes or hard to reach spots are now a breeze with TILT $^{\text{TM}}$.

Modern Hybrid of Positioning Technology

- Compact, lightweight, rugged design capable of withstanding a 2 meter pole drop
- Five unique data communication options
- All signals, all satellites, all constellations
- Field tested, field ready IP67 design
- Compact form factor ideal for Millimeter GPS and Hybrid Positioning
- Revolutionary 9-axis IMU and ultra-compact 3-axis eCompass



IP67 Waterproof Rating





ONCO Topologo	
GNSS Tracking	4EQ with metanted
Number of Channels	452 with patented Universal Tracking Channel
	Technology
GPS	L1 C/A, L1C, L1P(Y),
	L2P(Y), L2C, L5
GLONASS	L1 C/A, L1P, L2 C/A, L2P,
	L3C
Galileo	E1, E5a, E5b,
D-:D	E5AltBOC, E6
BeiDou	B1, B2, B3 with ICD availability
IRNSS	SPS-L5
SBAS	WAAS/EGNOS/MSAS
QZSS	L1 C/A, L1C, L2C,
	L5, LEX
L-band	1525-1560 MHz
Satellites Tracked	All in view
Accuracy	
(L1 + L2)	H: 3.0 mm + 0.3 ppm
5	V: 5.0 mm + 0.5 ppm
Precision Static*	H: 3.0 mm + 0.1 ppm
DTI	V: 3.5 mm + 0.4 ppm
RTK	H: 5.0 mm + 0.5 ppm V: 10.0 mm + 0.8 ppm
RTK.	H: 1.3 mm/°Tilt; Tilt ≤ 10°
TILT Compensated**	V: 1.8 mm/°Tilt; Tilt > 10°
TIET COTTIPOTICATOR	Maximum recommended
	angle for tilt compensation
	is 15°
Data Update / Output	1 Hz standard
Rate	10, 20 Hz optional
Communication	
Communication Optional Radio Type	UHF (410-470 MHz) SS (915 MHz)
	UHF (410-470 MHz) SS (915 MHz) 5-7km typical; 15km in
Optional Radio Type UHF radio range	UHF (410-470 MHz) SS (915 MHz) 5-7km typical; 15km in optimal*** conditions
Optional Radio Type UHF radio range Cellular	UHF (410-470 MHz) SS (915 MHz) 5-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA
Optional Radio Type UHF radio range Cellular Additional	UHF (410-470 MHz) SS (915 MHz) 5-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem
Optional Radio Type UHF radio range Cellular Additional Communications	UHF (410-470 MHz) SS (915 MHz) 5-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor	UHF (410-470 MHz) SS (915 MHz) 5-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SF-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x,
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SS (915 MHz) S-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMR+, RINEX
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) 5-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTOM SC104 v2.x, 3.x, CMR/CMP+, RINEX Version 2.x, 3.x and 4.x
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SS (915 MHz) S-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMR+, RINEX
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power	UHF (410-470 MHz) SS (915 MHz) 5-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink** Y TPS, RTCM SC104 v2.x, 3.x, CMR/CM/R+, RINEX Version 2.x, 3.x and 4.x 8GB Internal
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SF-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem WH-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CVIR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power	UHF (410-470 MHz) SS (915 MHz) 5-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink** Y TPS, RTCM SC104 v2.x, 3.x, CMR/CM/R+, RINEX Version 2.x, 3.x and 4.x 8GB Internal
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SS (915 MHz) SS (915 MHz) ST (915 MHz)
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SS (915 MHz) S-7km typical; 15km in optimal*** conditions integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMIR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 V, 5200 mAh) 1x removable battery
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power	UHF (410-470 MHz) SS (915 MHz) 5-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal callular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 V, 5200 mAh)
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) S-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 V, 5200 mAh) 1x removable battery (7.2 V, 2900 mAh) Up to 9 hours with
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power Power Power Source	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SS (915 MHz) S-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMF+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 V, 5200 mAh) 1x removable battery (7.2 V, 2900 mAh) Up to 9 hours with included batteries
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power Power Source Operating Time Environmental an	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SS (915 MHz) S-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMIR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 V, 5200 mAh) 1x removable battery (7.2 V, 2900 mAh) Up to 9 hours with included batteries ind Physical
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power Power Source Operating Time Environmental ar Dimensions (w x h)	UHF (410-470 MHz) SS (915 MHz) STRING CONDITION Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 V, 5200 mAh) 1x removable battery (7.2 V, 2900 mAh) Up to 9 hours with included batteries Included Include
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power Power Source Operating Time Environmental at Dimensions (w x h) Operating Temp.	UHF (410-470 MHz) SS (915 MHz) Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 V, 5200 mAh) 1x removable battery (7.2 V, 2900 mAh) Up to 9 hours with included batteries 1d Physical 115 x 132 mm -40°C to 80°C
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power Power Source Operating Time Environmental ar Dimensions (w x h) Operating Temp. Water/Dust Rating	UHF (410-470 MHz) SS (915 MHz) SO (915 MHz) Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 v, 5200 mAh) 1x removable battery (7.2 v, 2900 mAh) Up to 9 hours with included batteries 1d Physical 115 x 132 mm -40°C to 80°C IP67
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power Power Power Source Operating Time Environmental ar Dimensions (w x h) Operating Temp. Water/Dust Rating Drop and Topple	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SS (915 MHz) S-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTOM SC104 v2.x, 3.x, CMR/CMR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 V, 5200 mAt) 1x removable battery (7.2 V, 2900 mAt) Up to 99 hours with included batteries Ind Physical 115 x 132 mm -40°C to 80°C IP67 2 meter pole-drop
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power Power Source Operating Time Environmental ar Dimensions (w x h) Operating Temp. Water/Dust Rating	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SS (915 MHz) SF-7km typical; 15km in optimal*** conditions integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTCM SC104 v2.x, 3.x, CMR/CMIR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 V, 5200 mAh) 1x removable battery (7.2 V, 2900 mAh) Up to 9 hours with included batteries included
Optional Radio Type UHF radio range Cellular Additional Communications Data and Memor Real Time Data Output NMEA 0183 Output On-board Memory Power Power Power Source Operating Time Environmental ar Dimensions (w x h) Operating Temp. Water/Dust Rating Drop and Topple	UHF (410-470 MHz) SS (915 MHz) SS (915 MHz) SS (915 MHz) S-7km typical; 15km in optimal*** conditions Integrated HSPA+/CDMA Internal cellular modem Wi-Fi, Bluetooth®, LongLink™ Y TPS, RTOM SC104 v2.x, 3.x, CMR/CMR+, RINEX Version 2.x, 3.x and 4.x 8GB Internal External power 6 to 28 VDC 1x internal battery (3.7 V, 5200 mAt) 1x removable battery (7.2 V, 2900 mAt) Up to 99 hours with included batteries Ind Physical 115 x 132 mm -40°C to 80°C IP67 2 meter pole-drop



Form and Function

The most advanced GNSS technology available, yet compact enough to fit in the palm of your hand.



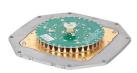
Highly configurable

Designed to grow with you, unique electronic option files empower you to activate available features instantly – increasing functionality as project demands expand.



Superior performance

Standard with integrated cellular and LongLink™ wireless communication modules, choose either long-distance UHF or convenient Spread Spectrum radio as well.



Future proof

Topcon's full-wave Fence Antenna™ tracks all GNSS signals currently available and is designed to track the constellations and signals of tomorrow.



- ** Subject to successful TILT calibration & operating environment free of magnetic disturbances.
- *** Varies with terrain & operating conditions.



For more information: topconpositioning.com/hiper-hr

Specifications subject to change without notice. ©2019 Topcon Corporation All rights reserved. T724EN D 1/19

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Topcon is under license. Other trademarks and trade names are those of their respective owners.