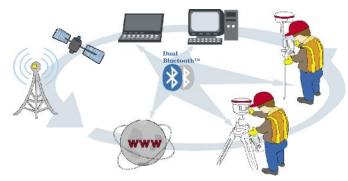
THE KRONOS 200 GPS SYSTEM

THE SUPERIOR GPS SYSTEM





KRONOS 200

THE HORIZON KRONOS 200 **GNSS SYSTEM**

With the core board based on proven technology, the KRONOS 200 is able to excel in terms of accuracy, precision, and consistency during operation. Its channel capacity caters for multi-constellational GNSS integration, with alignments to the GPS, GLONASS GALILEO, COMPASS networks and other future satellite networks.

The KRONOS 200 product features:

- 1. Built using Trimble Maxwell 6 technology
- Dual BluetoothTM technology
- RTK capability
- High speed and stable GPRS connection to CORS network
- Future expansion to include GSM connection
- UHF data link technology
- 7. Low-elevation tracking technology
- 8. On-board multipath mitigation
- Post-processing software to allow for application customization

Standard Accessories for KRONOS 200





2 x Batt:ries, Charger & Adaptor



Tribrach & Tribrach Adaptor

KRONOS Software

Standard Accessories for **KRONOS 200 ROVER**



Optional Accessories for KRONOS 200



PDL Radio



Communication Cable



Cable

KRONOS 200 TECHNICAL SPECIFICATIONS GNSS MODULE SPECIFICATIONS:		
Internal Memory		4G (15 static days with frequency of 1 Hz)
Number of Channels		220
Satellite signals tracked	GPS:	Simultaneous L1 C/A, L2E, L2C, L5
	GLONASS:	Simultaneous L1 C/A, L1 P, L2 C/A (GLONASS M Only), L2 P
	SBAS:	Simultaneous L1 C/A, L5
	GALILEO	Simultaneous L1 BOC, E5A, E5B, E5AltBOC1
	COMPASS	B1,B22-QZSS:L1 C/A, L1 SAIF,L2C, L5
PERFORMANCE SPECIFIC	CATION	
Initialization time:		45 sec
Signal recapture:		1 sec
RTK signal initialization		20 sec
Velocity Accuracy		Horizontal-0.007 m/s Vertical 0.020m/s
Acceleration Maximum Operating Limits		11 g
Velocity		515m/s
Altitude		18,000 m
Up to 50 Hz raw measurement & position outputs.		
	phase measurements with <1 mm preci	ision in a 1 Hz handwidth
Proven low elevation tracking	<u> </u>	in d 1 Hz bandwadi
	technology.	
Mother board	on many a second	ALICANA
GSM module The GSM board mount a SIMENS MC75i unit for GSM/GPRS communication.		
This module supports		Single band operation at 800 MHz, Dual band operation at 900 MHz and 1800 MHz, Tri-band operation at 800 MHz, 900 MHz, 1800 MHz.
Packet data service of GPRS Maximum rate of transmission 95.6. kbit/a		CLASS 10
Maximum rate of transmission 85.6 kbit/s. Embadded TCD/IR protected suits that supports, multiple links and provides ACK answer and large capacity cooks.		
Embedded TCP/IP protocol suite that supports multiple links and provides ACK answer and large-capacity cache.		
Connection devices		
Connectors I/O: 9-pins serial port (baud rate up to 115.200kbps) and 5-pins LEMO interfaces.		
Multicable with USB interface for connecting with PC.		
2.4GHz Bluetooth device class II		Maximum range is 50m.
Internal Radio:		
3 frequency range option (Emit or Receive)		410-430MHZ, 430-450MHz. 450-470MHZ
GSM/GPRS Modem		
GSM/GPRS data modem maximum range		70km.
External radio:		
PDL radio, emitting power and maximum range depending on model Maximum range 22km.		Maximum range 22km.
Serial protocols		
Reference outputs		CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1.
Navigation outputs:		ASCII (NMEA-0183 GSV), AVR, RMC, HDT, VGK, VHD, ROT, GGK, GSA, ZDA, VTG, GST, PJT, PJK, BPQ,
		GLL, GRS, GBS, GSOF.
		RTK and VRS operation (optional).
Receiver accuracy		
Static horizontal accuracy		3mm ± 1ppm (RMS).
Static vertical accuracy		5mm ± 1ppm (RMS).
Fixed RTK horizontal accuracy		8mm ± 1ppm (RMS).
Fixed RTK vertical accuracy		15mm ± 1ppm (RMS).
DGPS horizontal accuracy		$0.25\text{m} \pm 1\text{ppm}$ (RMS).
DGPS vertical accuracy		$0.50\text{m} \pm 1\text{ppm}$ (RMS).
Stand Alone RTK positioning accuracy		1.5m (CEP).
SBAS horizontal accuracy		0.50m
SBAS vertical accuracy		0.85m
Power Supply (9 to a 15V DC external power input with over-voltage)		
Voltage:		7.2 V.
Working time in static mode:		Typically 6 hours.
Working time in RTK rover mo	ode:	Typically 4 hours.
Charge Time		Typically 7 hours.
Power consumption		< 3.8 W.
Remaining time with battery light blinking:		1 hour.
Physical specification:		
Size Height 96mm x Diameter 186mm. 59mm from the center of the rubber loop to the bottom.		
Weight		1.2 Kg with internal battery, radio standard UHF antenna.
Operational temperature		- 25°C to 60°C (-13°F to 140°F)
Storage temperature		- 55°C to 85°C (-67°F to 185°F)
Waterproofing Shock resistance		Protected from temporary immersion to depth of 1 meter and from 100% humidity and dustproof. Designed to survive a 2m pole drop on the concrete and has vibration resistance.
besigned to survive a 2m pore drop on the concrete and has vibration resistance.		