### HRS-1 CORS





## HRS - 1 CORS SOLUTION FOR GNSS NETWORK

### **APOGEE**®

#### **KEY FEATURES**



#### Multi constellations Tracking

574 tracking channels Supports GPS, Beidou, GLONASS, Galileo, SBAS, QZSS, etc.



#### High level accuracy

Provides millimeter level accuracy no matter where you are.



#### **Powerful Battery**

High capacity (7.4V/6800mAh) Li-ion battery to ensure continuous operation.



#### Multi Network Connection

Supports GSM, NTRIP, Point to Point/Points.













### **GN 100**

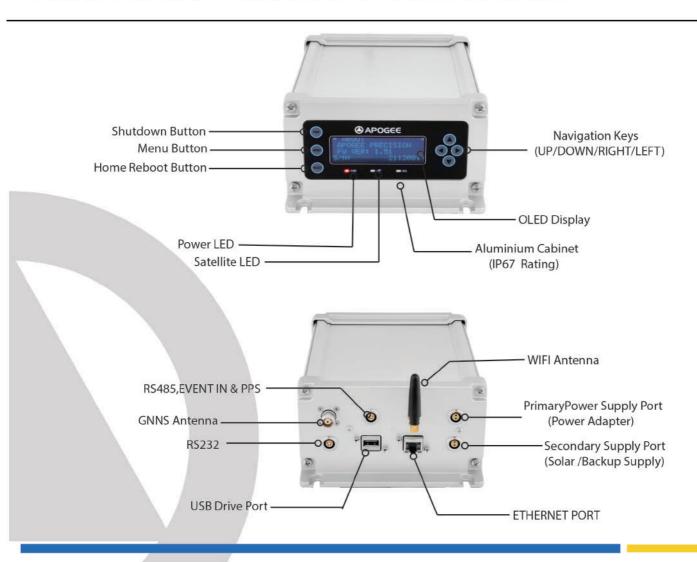
#### **ANTENNA**

- Support GPS L1/L2/L5, GLONASS L1/L2 and BeiDou B1/B2/B3 Galileo E1/E5a/E5b/AltBoc, L-Band and SBAS
- 2. Provides good signal tracking performance when satellites are at low elevation angle.
- 3. Water-proof and dust-proof design ensures absolute seal of kernel parts, capable for work in harsh environment.
- 4. Lightning proof circuit inside protects the LNA from surge immunity.
- 5. Multi-feed design provides stable phase center and multipath rejection capability.

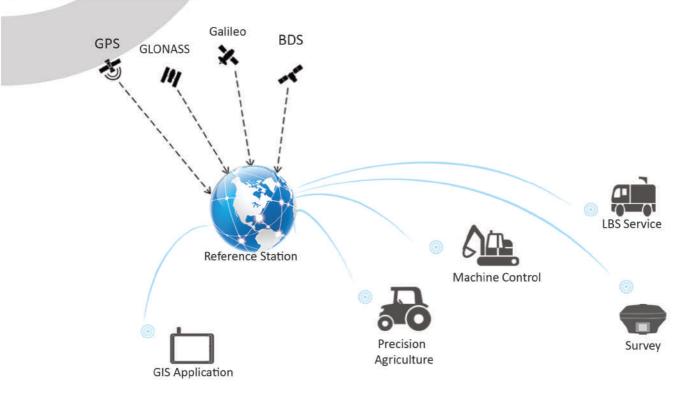




## HRS - I CORS SOLUTION FOR GNSS NETWORK



#### **APPLICATIONS**



# HRS - 1 CORS SOLUTION FOR GNSS NETWORK



#### **TECHNICAL SPECIFICATIONS**

#### SIGNAL TRACKING

574 channels for sin	nultaneously tracking
GPS:	L1 C/A, L1P, L2C, L2P, L5
BeiDou:	B1, B2, B3
BeiDou Global:	B1C, B2a
GLONASS:	L1 C/A, L1P, L2 C/A, L2P
Galileo:	E1, E5a, E5b, E6
QZSS	Reserved
SBAS:	WAAS, EGNOS, MSAS, GAGAN

#### COMMUNICATION

4 Lemo Ports	One 2-pin Lemo port for power supply and battery charging. One 2-pin Lemo port for solar / backup supply. One 5-pin Lemo port (RS485 Protocol) One 5-pin Lemo port (RS232 * 2 Protocol)
1 Standard USB port	Connect with external storage card
1 RJ45 LAN Ethernet	Supports protocols HTTP,
port	TCP/IP, FTP, NTRIP
1970	- 1 PPS output
	- 1 Event input
1 SMA male	For Wi-fi stabilize
Connector	
1 TNC connector	GNSS Antenna connector

#### POSITIONING SPECIFICATIONS

Post Processing	3 mm + 0.5 ppm Horizontal	
	5 mm + 0.5 ppm Vertical	
Single Baseline RTK	8 mm + 1 ppm Horizontal	
	15 mm + 1 ppm Vertical	
Network RTK	8 mm + 0.5 ppm Horizontal	
	15 mm + 0.5 ppm Vertical	
DGPS	<0.4m RMS	
Standalone	1m 3D RMS	
SBAS	1.5m 3D RMS	

#### **DATA FORMAT**

Correction data I/O	RTCM 3.X, CMR (GPS only),
	CMR+(GPS only)
Position data output	ASCII: NMEA-0183: GSV, RMC, HDT, VHD,
	GGA, GSA, ZDA, VTG, GST, PJK, PTNL
	Extended NMEA-0183: BDGGA, GPNTR,
	GPCDT, GPHPR
Observations	RTCM, RINEX

#### **USER INTERFACE**

Front panel display	OLED Display
	Buttons for configuration
Web User Interface	Allows remote configuration,
	data retrieval and firmware updates

#### **Data Logging**

Maximum 20 Hz data	logging rate	
Internal	8/16 GB	
External	1 TB	
Log File	5 mins to 24 hrs	
Data retrieval and transfer	FTP and USB	

#### ANTENNA SUPPORT

The second secon	
Recommended Antenna	GN100

#### **ENVIRONMENT**

Operating temperature	0 °C to + 50 °C
Storage temperature	-10 °C to + 60 °C
Humidity	Maximum 100 without condensation
Waterproof and dustproof	IP67
Shock	Rugged aluminium case with
	rubber ring seal

#### **PHYSICAL**

$Size(L \times W \times H)$	204 mm × 156.3 mm × 87 mm	
Weight	1.586 Kg	
Housing	Rugged aluminium housing	

#### TIME PRECISION

	1000	
GPS+Glonass+Beidou	20 ns	

#### **ELECTRICAL**

Power consumption	15W
External power input	12V DC (max. upto 18V)
Integrated internal	7.4V/6800mAh Li-ION
Battery	
Seamless switching hety	ween external and Internal Power source

#### **Apogee GNSS Pvt Ltd**

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