

CEEBASE™

Ruggedised GNSS Base Station

Compact

The CEEBASE™ is a ruggedised highly accurate and simple to use GNSS base station with a built in rechargeable battery.

It was designed to provide local RTCM correction signals for one or more roving GNSS receivers, generally for the purposes of hydrographic surveying.

Rugged

The CEEBASE™ has been designed and manufactured using high quality components to withstand harsh weather environments and is encased in a virtually indestructible Pelican case.

Dependable

The CEEBASE™ contains a high accuracy GNSS receiver for generating RTCM messages and a built in UHF radio modem. The GNSS will provide either RTCMv2.0 data for DGPS (sub metre positioning) or RTCMv3.0 for RTK (centimetre positioning).

Expandable

The CEEBASE™ unit has an internal rechargeable battery or can be connected to an external power source to run for extended periods between recharging.



www.ceehydro.com



CEEBASE™

General Specifications

Physical

Dimensions	36.5 x 29.5 x 15.5 cm (L x W x D) 14.37" x 11.61" x 6.10"
Display	2 x 20 character Jumbo LCD with contrast control
Weight	6.5 kg (14.34 lbs)
Colour	Pelican Yellow
Connectors	LEMO 1B series, TNC (GPS), BNC (telemetry)

Environmental

Operating temperature	0°C-50°C (32°F- 122°F)
Humidity	95% non condensing
Ingress protection rating	IP65

Power

Power consumption (combined GNSS and telemetry)	9 watts (approx operating time 12+ hours)
Internal battery	Rechargeable high capacity NiMH batteries 20Ah
Antenna voltage output	5.0 VDC
External power supply	Nominal 12.0 VDC @ 2A (9-24 VDC range)

GNSS Receiver Options

Hemisphere Crescent L1	± 0.6m (95% DGPS) GPS
Hemisphere Eclipse L1/L2	± 0.2m (95% OmniSTAR HP) GPS
Novatel OEM628 L1/L2/L5	± 0.01m (95% RTK) GPS + GLONASS + Galileo + Compass

Telemetry Module Options

UHF (458 MHz)	Range 1- 10 km (0.6-6.2 miles)
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz
TX Power	10 mW-1 W / 50 ohm
Data speed of radio interface	19200 bps @ 25 kHz, 9600 bps @ 12.5 / 20 kHz

CEELINK Modem

Dimensions	24.5 x 19.5 x 11.5 cm (L x W x D) 9.65" x 7.68" x 4.53"
Display	LCD
Weight	3 kg (6.61 lbs)
Connectors	LEMO 1B series, BNC (telemetry)
Operating temperature	0°C-50°C (32°F- 122°F)
Humidity	95% non condensing
Ingress protection rating	IP65
Power consumption	1.7 watts (approx operating time 30+ hours)
Internal battery	Rechargeable high capacity NiMH battery 10Ah
External power supply	Nominal 12.0 VDC @ 2A (9-24 VDC range)

RTCM Data Outputs

RTCM Outputs	RTCM v2.3 (DGPS) Crescent RTCM v3.0, ROX, CMR+ (RTK) Eclipse RTCM v3.0, CMR+ (RTK) Novatel OEM628
Baud rate	4800 – 115200
Data bits/parity/stop bits	8/N/1



- Specifications are subject to change
- Visit www.ceehydro.com for the complete list of specifications
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