



ND-100

CAPTURE GPS DATA ON YOUR WIN/MAC/LINUX PORTABLE DEVICE

The ND-100 USB GPS dongle is a highly sensitive GPS receiver that is ideally suited for use with laptops, notebooks, tablets and UMPC devices.

Low power consumption and a highly sensitive built-in GPS antenna makes acquiring even the weakest of satellite signals not a problem for the ND-100. Satellite-based augmentation systems, such as WAAS and EGNOS are also supported for even greater accuracy.

Drivers for Windows, Mac and Linux are included to convert the USB port into a virtual COM port making the GPS NMEA data fully compatible with applications such as street navigation, or data collection.

Key Features

- M-Star MSB2122
- 48-Channel All-In-View Tracking
- NMEA 0183
- WAAS / EGNOS Support
- 2.6" x 0.9" x 0.4"
- Compact Portable Size
- Built-In GPS Patch Antenna
- Compatible With: WIN/MAC/LINUX
- USB 2.0





General Specifications

GPS Chipset.....M-Star MSB2122
 Frequency.....L1, 1575.42 MHZ
 C/A Code.....1.023 MHz chip rate
 Channels.....48 all-in-view tracking
 Sensitivity.....-161 dBm

Accuracy

Position Horizontal.....< 5 2D RMS WAAS/ EGNOS / MSAS enabled (CEP with DGPS)
 > 5m ~ 10m 2D RMS WAAS disabled (CEP without DGPS)
 Velocity.....0.1m/s
 Time.....1ms RMS
 WASS/EGNOS/MSAS.....Enabled

Aquisition Rate

Hot start.....1.5 sec., average
 Warm start.....32 sec., average
 Cold start.....34 sec., average
 Reacquisition.....<1 sec. average

Protocol

GPS Protocol.....NMEA 0183 v3
 GPS Output Data.....GGA(1sec), GSA(1sec), GSV(5sec), RMC(1sec),
 GLL,VTG is optional
 GPS transfer rate.....4800 (Bits per second: 4800, Data bits: 8, parity:
 None, Stops bits: 1)

Operating System

Compatible operating systems.....Windows: 98/2000/XP/Vista
 Mac: OSX 8/9/10.X
 Linus: Redhat 7.3/8.0/9.0

Dynamic Condition

Acceleration Limit.....Less than 4g
 Altitude Limit.....Max 60,000 Feet (18,000 meters)
 Velocity Limit.....Max 515 Meters / sec (1000 Knots / 151 MPH)

Environmental Specifications

Operating.....-4°~ 140°F (-20°~ 60°C)
 Storage.....-22°~ 158°F (-30°~ 70°C)
 Humidity.....Up to 95% non-condensing

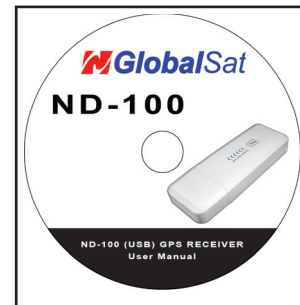
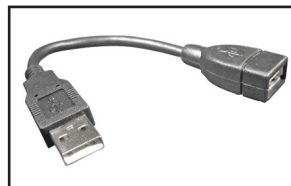
Electrical Characteristics

Voltage.....DC 5.0V, USB bus power
 Current Draw.....< 55mA
 Power Consumption.....< 275 mW

Physical Charateristics

Dimension.....2.6" x 0.9" x 0.4" (65.5mm x 23mm x 11mm)
 Weight.....0.64 Ounces (18.14g)

WIN	USB
MAC	M-Star
LINUX	48 CHANNEL



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