



NAVILOCK®

Navilock NL-454US GPS Stick

NEU

MStar MB2122 chipset and USB 2.0 interface

The NL-454US is an USB 2.0 GPS receiver with internal antenna and a 48 channel Mstar GPS chipset. Netbooks, which are getting more and more popular these days, can be easily converted into a adequate navigation- or routingsystem. Due to a optional NMEA-compatible navigation- or routing solution (NAVIGATOR 8 or MarcoPolo) you can turn any netbook into a portable navigationsystem. Therefor the NL-454US provides the required position data.

General specification

MStar MB2122 GPS single chipset
Max. simultaneous reception of 48 channels
Sensitivity positioning: -161dBm
Integrated ceramic patch antenna (18 x 18 x 4mm)
Very short TTFF (Time To First Fix) also with low signal
Supports the NMEA 0183 protocol
Internal USB to serial bridge

Specification

Frequency L1, 1575.42 MHz
C/A Code
Position accuracy horizontal 5 meter
Speed: 0.1 m/s
Time 1ms RMS

Time

Hotstart 1.5 sec., approx.
Warmstart 32 sec., approx.
Coldstart 34 sec., approx.
Re-reference < 1 sec. approx.

Date

Basic setting: WGS-84

Dynamic conditions

Speed up limit less than 4g
Height limit 18,000 meter (60,000 feet) max.
Speed limit 515 meter/sec.
(1,000 knots) max.

Power supply

Power connector: 5V DC via USB port
Power consumption: approx. 55mA

Interface features

USB 2.0 UART
Baudrate 38400
NMEA 0183 v3 GGA(1 sec), GSA(1 sec), GSV(5 sec),
RMC(1 sec), GLL, (optional VTG)

Physical features

Operation -20°~ +60°C
Storage -30°~ +70°C
Humidity up to 95% non-condensing
Dimension 65.5 x 23 x 11 mm
Weight 20g

System requirement

Windows 98 / 2000 / XP / Vista
Mac OSX 8/9/10.x
Linux RedHat 7.3 / 8.0 / 9.0
a free USB port
CPU: min. 500 MHz, Pentium III
System memory (RAM): min. 128MB RAM
HDD: 50MB free memory
Display: 1024x768, "16-bit High Color" Display

Package content

NL-454US
8cm CD with manual, driver and tool
USB extension cable 13cm

 **USB 2.0 Version**

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