

## Navicore Personal 2007 Technical Specification

Navicore Personal is a fully featured portable satellite navigation system for connected mobile devices, with:

1. The fastest and most reliable routing performance on connected mobile devices, finding a route is as easy as typing an SMS. No other product calculates long routes as fast and reacts to driver deviations from the route as quickly.
2. The most convenient map functionality to street number detail with a large Point of Interest directory including phone numbers.
3. A fast and reliable map that can be used for browsing and planning even without a GPS receiver. Support for both Tele Atlas and Navteq maps.
4. The world smallest GPS receiver that offers the advantage of continued excellent GPS coverage in built up and wooded areas, line of sight is no longer a requirement.

### Key features

- Full postal code search
- Free safety camera download (cost of GPRS call subject to operator rates)
- Free traffic alert (cost of GPRS call subject to operator rates)
- Car, cyclist and pedestrian modes with complete pocket map for pedestrians
- Safety screen mode
- Search addresses from your phone contacts
- Plug & Play set up, no downloads or settings required
- Super fast route and rerouting calculation
- Turn by turn voice and on screen guidance with street level mapping
- Place and receive calls during navigation
- Large Point Of Interest directory, e.g. petrol stations, hotels, parking and sport facilities to navigate and call to
- Possibility to share your location with friends and family
- State of the art update mechanism – [update.navicoretech.com](http://update.navicoretech.com).

### Supported platforms

Navicore Personal 2007 supports following platforms:

- S60
- S60 3<sup>rd</sup> edition
- S80
- UIQ3
- Nokia 770 Internet Tablet

For a complete list of supported devices go to [www.navicoretech.com/phones](http://www.navicoretech.com/phones).

### Package contents

#### Navicore Personal

- Navicore Personal 2007 software with selected map on CD, DVD or memory card
- Memory card reader (included only with CD or DVD)
- SiRF III Bluetooth GPS-receiver
- Car charger for the GPS
- AC charger for the GPS (only in Europe, excluding UK and Ireland)
- Lanyard for the GPS
- Quickstart + Support card

#### Software only

- Navicore Personal 2007 software with selected map on CD, DVD or memory card.
- Memory card reader (included only with Europe with memory card)
- Quickstart + Support card

#### Upgrade

- Navicore Personal 2007 upgrade software with selected map on CD, DVD or memory card
- Memory card reader (included only with Europe with memory card)
- Quickstart + Support card

## Bluetooth GPS Receiver SiRF III – Technical specifications

### General

- GPS Chip: low power consumption SiRF Star III Chip.
- Channels: Tracks up to 20 satellites. \*
- Satellite broadband: 1 Hz.
- Receiver signal: L1, C/A Code.

### Acquisition Time (Average) \*

- Reacquisition: 0.1 second.
- Cold start: 42 seconds.
- Warm start: 38 seconds.
- Hot start: 1 second.
- Automatically refreshes position every second.

### Accuracy \*

- Typical positioning: 5 – 25 m CEP (without SA).
- Differential positioning:  
With synchronous satellite EGNOS/ WAAS:  
Position error:
  - < 2.2 m, horizontal 95% of the time.
  - < 5 m, vertical 95% of the time.
- Velocity: 0.1 m/ sec.
- Time: 1 µsec sync GPS time.

### Usage \*

- Altitude: < 18,000 meters (60,000 feet).
- Velocity: within 736 meters/ seconds.
- Acceleration: 4G.
- Jerk: 20 meters/ seconds (max).

### Power Supply

- External power source: 5V DC +/- 5%
- Battery:
  - Main battery: Rechargeable Lithium-ion battery.
  - Backup battery: Rechargeable 3V Lithium-ion battery for RTC and satellite data storage.
- Working current: 75-85 mA (under Continuous mode)
- Battery life: Up to 8 hours under full battery and Continuous mode.

### Output Protocol and Interface

- **Output Protocol:**
  - I. NMEA 0183 v2.2 protocol
    - Baud rate: 38400 bps
    - Data bit: 8
    - Parity: None
    - Stop bit: 1
  - II. Output Format:
    - ✓ GPGGA (once per second).
    - ✓ GPGSA (once per 5 seconds).
    - ✓ GPGSV (once per 5 seconds).
    - ✓ GPRMC (once per second).
    - ✓ GPVTG (once per second).
    - ✓ Choice of GLL or SiRF binary format.
  - III. Datum: WGS84.
- **Input/ Output Interface:**
  - I. Compatible Bluetooth Serial Port Profile (SPP): up to 3 meters (without obstacles).
  - II. Output port: Mini USB Type B connector.

### Dimensions and Weight

- Dimensions: 64 (W) × 22(L) × 15(H) millimeters
- Weight: < 35 grams
- Operating temperature: from -10 °C to + 60 °C (when not battery charging); from 0 °C to 45 °C (when battery charging).
- Storage temperature: from -20 °C to +70 °C
- Operating humidity: 5% to 95% (without condensation)

### Other Functions

- Minimum signal strength: -159 dBm. \*
- Antenna Type: Built-in patch antenna.
- LED display: Built-in 3 LED display to indicate battery status, Bluetooth data transfer, and GPS status

\* SiRF's original chipset spec. Part of the information above is provided by SiRF Technology, Inc.