With the introduction of the 3011 Mobil+™ GPS Compass, Thales Navigation offers a system for easy, fast and accurate orientation of mobile phone base station or any directional antenna.

**IMPROVE YOUR SITE MEASUREMENTS**
The 3011 Mobil+ orientation accuracy is better than 0.5° and its position accuracy is 2-3 meters. In contrast to conventional measurement equipment, the 3011 Mobil+ is fixed on the antenna itself and excludes any shift. As a result the orientation and position correspond to the true antenna pointing and allows the user to correct and improve the quality of his network coverage.

**A TURNKEY SOLUTION FOR YOUR APPLICATIONS**
The system includes one GPS receiver, two GPS antennas, a special mounting bracket compatible with mobile network antennas, a Pocket PC and terminal software.

The 3011 Mobil+ GPS Compass is a cable-free system and features Bluetooth™ data transfer. After registration of the basic antenna location and orientation data, the whole survey data is logged in a downloadable file available for you to verify the precision of your work and to archive the job.

The 3011 Mobil+ system is easy to set-up and operate, provides solutions quickly and is guaranteed even in highly magnetic environments.

**ROBUST AND LIGHTWEIGHT**
The aluminium construction of the antenna bracket is designed for single-handed use and fits onto all common mobile network antennas. The carrying cases are designed specifically for the tough everyday routine of engineers.

The 3011 Mobil+ system was developed wholly in cooperation with major mobile network providers.
GPS/GNSS Receiver Features
• 12 GPS independent channels
• 4 WAAS/EGNOS channels
• L1 C/A Code and Phase with multipath processing
• GYROSKY® technology for dual antenna acquisition with single cable and fast and non-ambiguous heading determination
• Acquisition time:
  - 90 sec on start-up
  - 15 sec in reacquisition
• Manual and automatic calibration

Accuracy / Precision
• Azimuth: 0.5°(1)(2)
• Pitch: 0.8°(1)(2)
• Horizontal: 3 m (10 ft)(1)
• Vertical: 5 m (17 ft)(1)
• Angular resolution: 0.01°

Interface
• 1 RS232 port
• 2 RS422 port
• 1 Event input (TTL compatible)
• 1 PPS output
• 1200 to 115200 bauds
• NMEA 0183 protocol V3.0

Technical Specifications
GPS Receiver Environmental
• Protection
  - Calculator: IP42
  - Antenna: IP66 (waterproof)
• Operating temperature:
  - Calculator: -20°C to +55°C
  - Antenna: -40°C to +70°C
• Storage temperature: -40°C to +70°C
• Vibration: EN60945
• Shock : ETS 300 019
• EMI: EN60945, FCC Part15 Class B

Physical
• Size: 264 x 64 x 215 mm
• Weight: 1.8 kg (4 lb)

Electrical
• Power supply: 9-36 VDC
• Consumption: < 15 W
• Battery: Li-lo 6000 mAh

Standard Features
Software features
• Application software:
  - Pocket PC version
  - Windows® version
• Communication with GPS unit via:
  - Bluetooth
  - Serial cable
• Input of:
  - Site data
  - Company information
  - Electrical & mechanical down tilt
• Measurement:
  - Input of expected heading
  - Display of measured heading and difference with expected value
  - Precision measurement
  - Recording of measurement data

Standard delivery list
• GPS receiver
• GPS antenna x2
• Bluetooth module
• Antenna rod and bracket
• RF cable (5 m)
• Battery x2 and battery charger
• Carrying case x2
• CD-ROM with manual and software

Optional Features
Terminal
• Pocket PC Operating System
• Integrated Bluetooth

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(1) All performance figures are 1 rms values measured in normal conditions of GPS reception (normal ionospheric activity, 5 SVs used and HDOP<4 on a clear site).

(2) With a 0.6 m antenna baseline