

Based on a high-performance 15 channel GPS core, the NR203 includes a powerful multifrequency, multi-station correction receiver capable of processing differential messages from a variety of sources (HF, UHF, Radio-beacon MF or any RTCM104 digital strings). The corrections are subsequently used to compute either KART positions (when phase data are available) or up to 4 single station DGPS solutions which may then be combined to produce an optimised multi-station DGPS solution.

Sophisticated statistical testing and quality control procedures are applied according to the UKOOA recommendations to guarantee the reliability of the results.



FEATURES AND BENEFITS

- GPS receiver
 - 15 channel L1 receiver
 - C/A code and L1 carrier phase
 - Built-in differential receiver (4 channel)
- HF (1.6 - 3.5 MHz) BCSPK demodulation
- MF (285 - 325 kHz) MSK demodulation
 - Correction processed
- THALES Navigation HF format (NDS 200 type)
- THALES Navigation UHF format (NDS 100 type)
- RTCM 104 Msg 1, 2, 3, 7, 9, 16
 - Raw data
- 0.6 s rate in ASCII and binary format

INTERFACING CAPABILITY

- Wide angle 180° electroluminescent display
- 1 RS 232 I/O port
- 2 RS 422I/O ports
- 1 RS232 DGPS input port
- 1 RS422 DGPS input port
- Full configurability of display and digital ports
- PPS output (<1µs)
- External time tagging (<1 µs)
- 10 MHz external oscillator input

TECHNICAL SPECIFICATION

PHYSICAL

Receiver
 - dimensions (HxWxD) : 165x365x220 mm
 - weight : 4.4 kg (fixing parts 2.3 kg)

NAP001 ANTENNA

- diameter : 143 mm
 - height: 44 mm

DHM5000 DIFFERENTIAL ANTENNA

- diameter: 135 mm
 - height: 235 mm

ELECTRICAL

Power: 16 W
 Voltage: 10 - 36 V DC

ENVIRONMENTAL

Receiver temperature:
 - operating: -10°C, +55°C
 - storage: -30°C, +70°C

DIFF AND NAP4 ANTENNAS TEMPERATURE:

- operating: -40°C, +65°C
 Humidity 95% non condensing

Note: Dynamic Positioning Services reserve the right to amend this specification without prior notice.