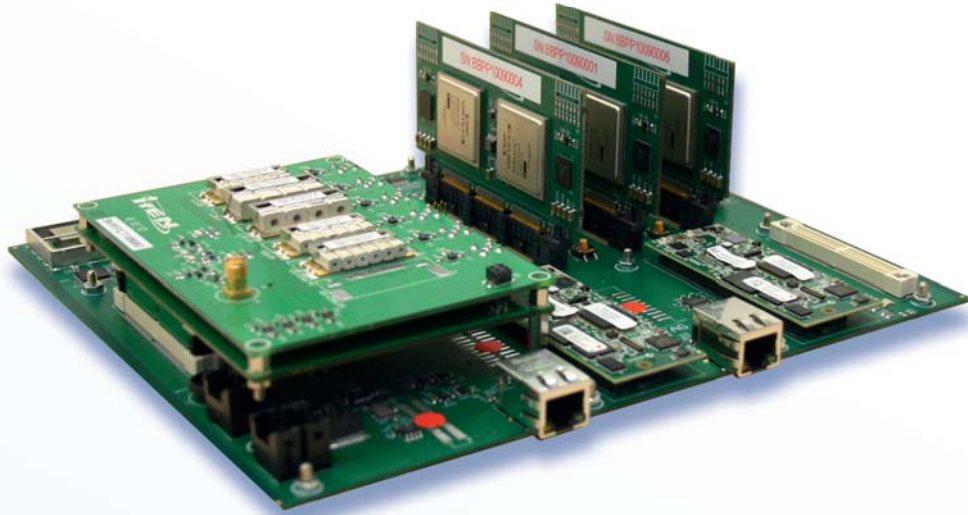




# NAVX<sup>®</sup>-NTR



shipping in Q2/2010

## Navigation Test Receiver - GPS/Galileo/GLONASS -

Supports up to  
6 frequencies  
simultaneously

### Frequencies

Supporting up to 6 L-band frequencies in parallel, the NavX<sup>®</sup>-NTR multi GNSS test receiver supports all current GNSS transmission frequencies. Due to its plug-in design, the RF-front-end can be easily customized for special filtering and other frequencies.

Software (de-  
fined) signal  
processing

### Flexibility

The signal processing is fully flexible. The high performance correlation engine with up to 84 signal component combined channels (SC<sup>3</sup>) is implemented in powerful sets of FPGAs. Signal acquisition and tracking are realized on a high performance ARM Cortex A8 embedded processor.

GPS  
Galileo  
GLONASS

### GNSS

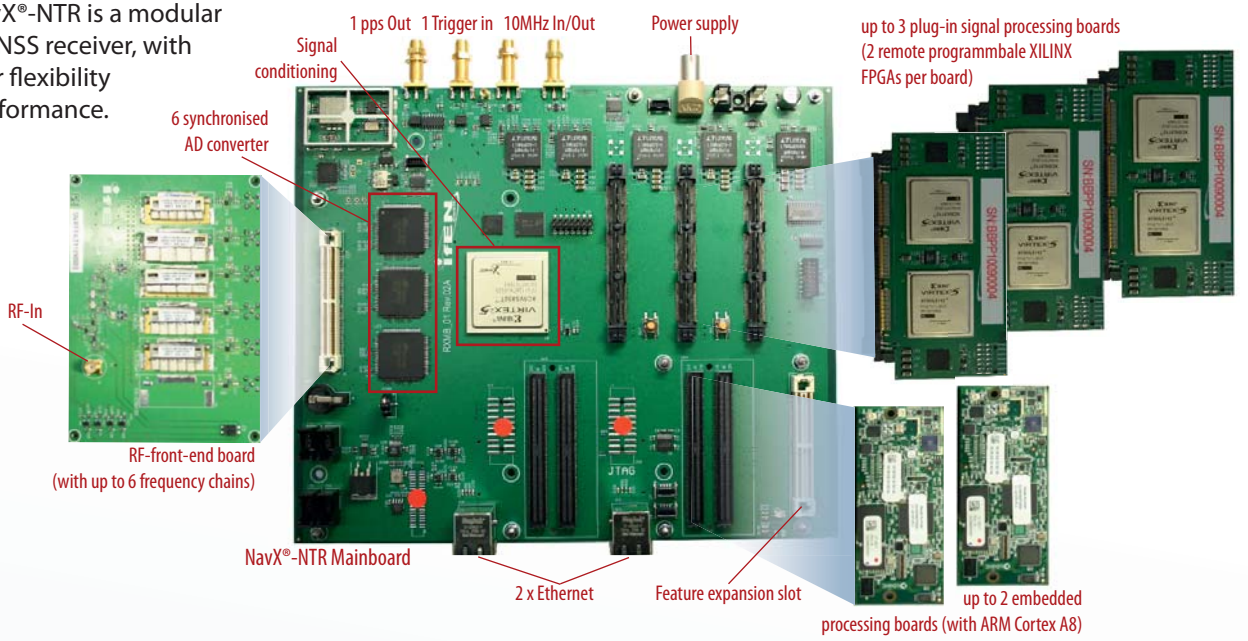
The primary objective is to provide a high performance and full flexible test receiver for all types of GNSS systems. Thus the NavX<sup>®</sup>-NTR fully supports existing GPS and GLONASS, but also the coming Galileo systems.



## NTR - Navigation Test Receiver

### MODULAR ARCHITECTURE

The NavX®-NTR is a modular multi-GNSS receiver, with superior flexibility and performance.



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### FEATURES

#### Signal Capability

- Galileo E1, E5 and E6
- GPS L1, L2P & L2C, L5
- GLONASS G1
- SBAS

#### RF Front-End

- plug-in RF front-end board
- up to 6 L-band frequencies simultaneously
- design optimised to minimise inter-frequency HW bias

#### Correlation Engine

- scalable up to 3 plug-in FPGA signal processing boards
- advanced SC<sup>3</sup> correlation engine on processing boards
- 28 SC<sup>3</sup> channels for I&Q signals per processing board
- remote upgrade of SC<sup>3</sup> correlation engine

#### Acquisition and Tracking Engine

- plug-in A&T processing board (on ARM Cortex A8, 600MHz)
- powerful software based acquisition & tracking engine
- remote upgrade capability of A&T engine

#### Navigation Engine

- plug-in NAV processing board (on ARM Cortex A8, 600MHz)
- high performance processing possible (RTK, RAIM, ...)
- remote upgrade capability of NAV engine

### SPECIFICATION

#### Performance

- up to 84 SC<sup>3</sup> channels (equivalent to 168 channels)
- BPSK, BOC, CBOC/ TMBOC, AltBOC, interplex

#### Physical:

- Size (W x D): 236 mm x 199 mm (NTR mainboard)

#### Power

- Input voltage: 9 -18 VDC
- Power Consumption: < 30 W (typical)

#### I/O Ports

- 1 RF in
- 1 pps out
- 1 external trigger in
- 10 MHz external oscillator in
- 10 MHz out
- 1 Ethernet in/out (up to 2 Ethernet, capability for UART, ...)
- 1 feature expansion slot (for customized extensions)

#### Housing & Power

- 2HU 19" housing
- 110-250 VAC



NavX®-NTR 19" housing

#### Disclaimer:

All specifications subject to change without prior notice

#### For further information contact:

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