# NavX<sup>®</sup>-NTR

# Navigation Test Receiver





# **GNSS Test Receiver** Flexibility | Scalability | Usability

Turning our test expertise into your success.

IFEN's flexible software defined Multi-GNSS test receiver solution.

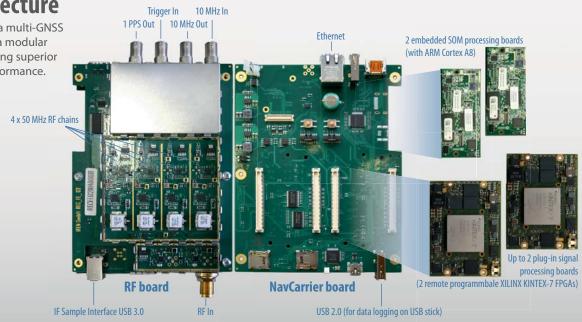


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## **HW Architecture**

The NavX<sup>®</sup>-NTR is a multi-GNSS test receiver with a modular architecture, offering superior flexibility and performance.



### **Features**

#### **Signal Capability**

- GPS L1, L2P & L2C, L5 and SBAS L1
- Galileo E1, E5a, E5b, E5ab AltBOC and E6
- GLONASS G1, G2
- BeiDou B1, B2
- IRNSS L5 and S-band .

#### **RF Front-End**

- 4 RF chains simultaneously with 50 MHz RF bandwidth each
- Supports all L-Band GNSS frequencies simultaneously .
- Design optimised to minimise inter-frequency HW bias .
- . Support of S-Band on request

#### **Correlation Engine**

- . Up to 2 plug-in FPGA signal processing boards
- Up to 40 channels for I&Q signals per FPGA board
- Remote upgrade of correlation engine (FPGA bit file) .

#### **Acquisition & Tracking Engine**

- Plug-in A&T processing board (ARM 8 Cortex, 1 GHz) .
- Powerful software based A&T engine
- Remote upgrade of A&T engine (firmware & software) .

#### **Navigation Engine**

- Plug-in navigation processing board (ARM 8 Cortex, 1 GHz) .
- Remote upgrade of navigation engine (firmware & software) •

#### **Feature Expansion Slot**

- Special connector with direct access to all stages of signal processing
- For customer specific solutions, e.g. crypto modules

### **Specification**

#### **Measurements**

Update rate Latency (output)	0.02 - 5 Hz < 300 msec
Tracking Performance	
Code accuracy (typical)	< 2 20 cm
Carrier accuracy	< 1.5 mm
TTFF (cold)	< 60 s
• TTFF (hot)	< 5 s
Dynamics	
Velocity	515 m/s
Physical	
• Weight	5 kg (1.8 kg DC version)
• Size	19" housing with 1 HU
Electrical	
Inpult voltage	115 / 230 VAC or 12 VDC
• Power	<50 W (AC) or $<40$ W (DC)
I/O Ports	
• 1 IF samples output interface	USB 3.0
• 1 RF in	TNC female (50 Ohm)
• 1 PPS out	BNC female (LVTTL)
1 external trigger in	BNC female
• 10 MHz external oscillator in	BNC female (50 Ohm)
10 MHz internal reference out	BNC female

1 Ethernet



Notes

Disclaimer: All specifications subject to change without prior notice

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