



Company

1987

Navman Wireless' roots began as Navman, a New-Zealand-based GPS technology company.

1988

Navman launches marine GPS products.

1996

Developed own GPS module based on Rockwell GPS chips.

2001

Navman buys OEM business from Conexant.

2003

OEM division becomes part of Brunswick New Technology Inc., Lake Forest, Illinois

2007

Senior management partnered with Prairie Capital to purchase Navman Wireless and make it a private company.

2008

More than 5 Million Users trust Navman.
A-GPS and Dead-reckoning solution J30/31DR

2010

Introduced Jupiter® J-F2 module based on J-3 Formfactor



WHO WE ARE

Over 250 employees spread over 9 countries in Europe, N. America, L. America, and Asia Pacific
Over 70+ engineers in research and development

GLOBAL COMPANY WITH FINANCIAL STRENGTH

14 offices worldwide: UK, Ireland, Italy, Australia, New Zealand, Taiwan, China, Singapore, US, Mexico
State of the art R&D facilities in Silicon Valley, California and Auckland, NZ

CONSISTENT PROFITABLE GROWTH

16% increase in workforce in 2010 versus a global employment growth rate of 1.3%**
Actively expanding into Continental Europe, Asia and Latin America

PROVEN RELIABILITY

Design and manufacture own products (complete quality assurance)
Own Asian supply chain office (ensures component quality and availability)

COMPETITIVE ADVANTAGES

Global presence and large customer base can be leveraged to continuously develop the best technologies and product features
Profitable with positive cash flow and strong balance sheet
20 years in GPS products with roots dating back to Conexant, the division of Rockwell who originally developed GPS for the U.S. military
Strong IP portfolio with over 7 patents worldwide, 3 patents recently filed



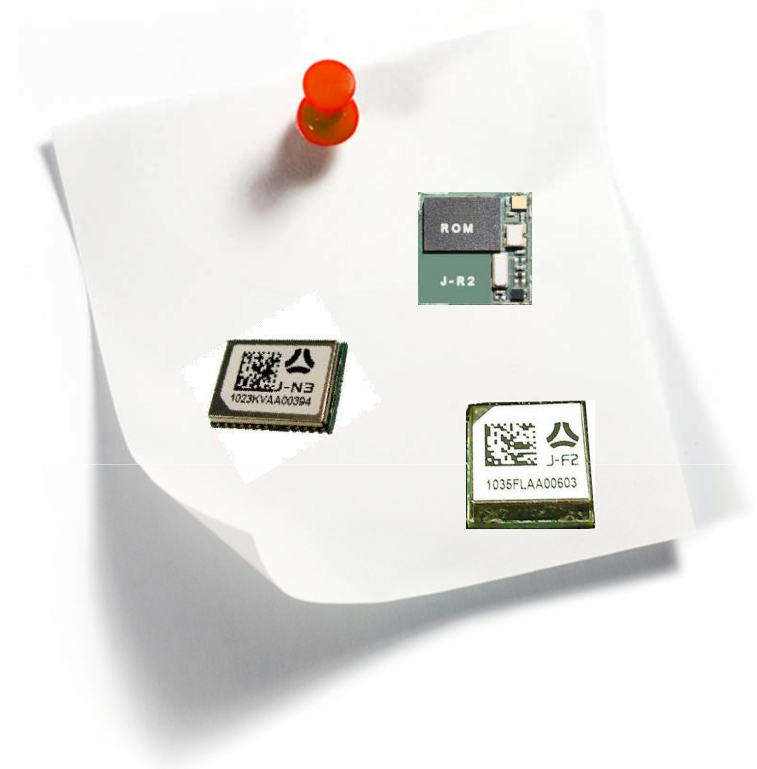
Jupiter[®] Products



Established Form factor



Jupiter 3 Miniature Module



NEW Jupiter 4 Family

New J-F2 and variants





Jupiter[®] SiRFStarIV Highlights

- Sensitivity, -163dBm (TRK) -147dBm (ACQ)
- Full power, 37mA (TRK) 50mA (ACQ)
- ATP, 16mW (1Hz updates)

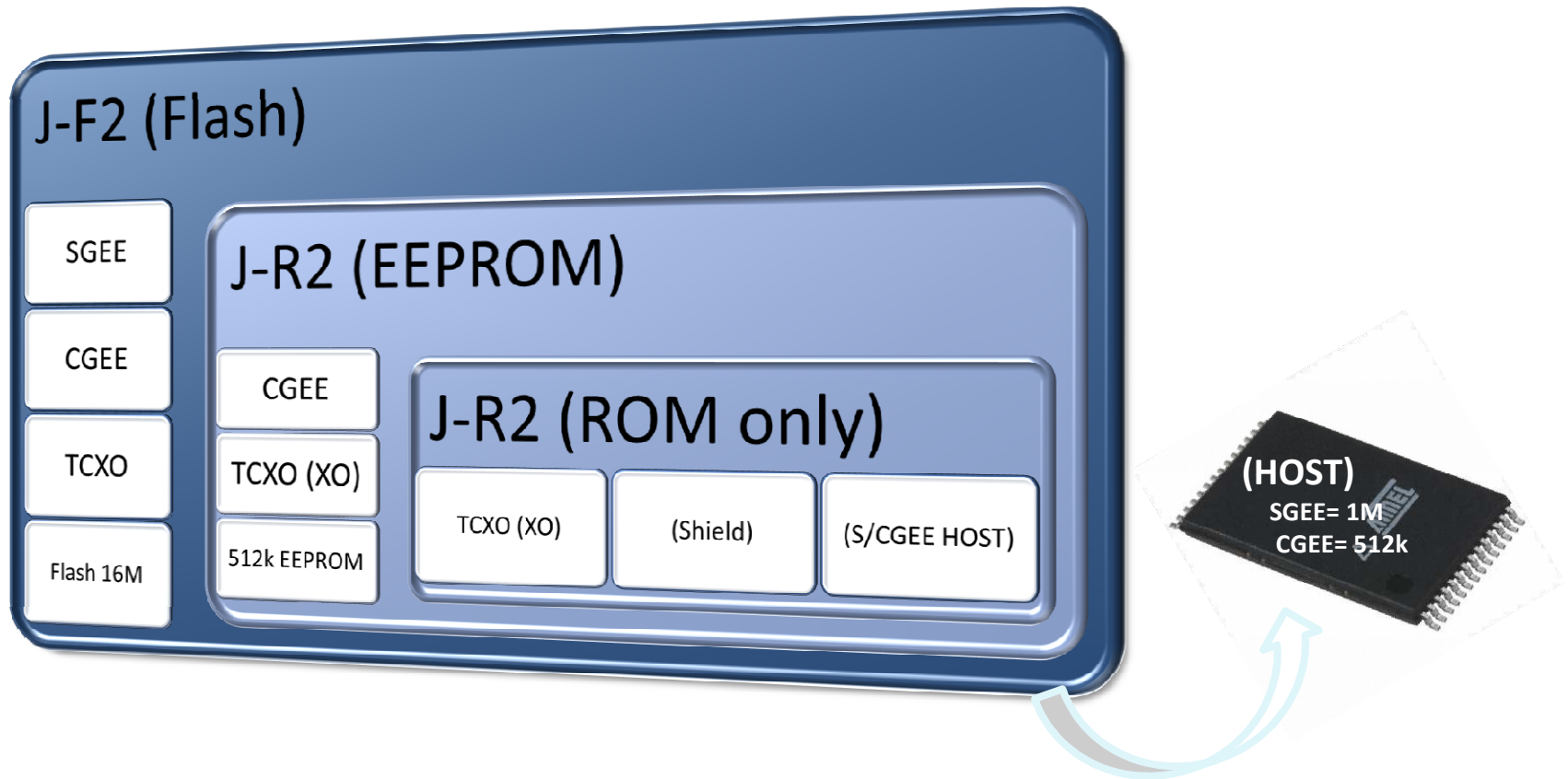
- Single power supply, 1.8V or 3.0V
- Integrated temperature sensor

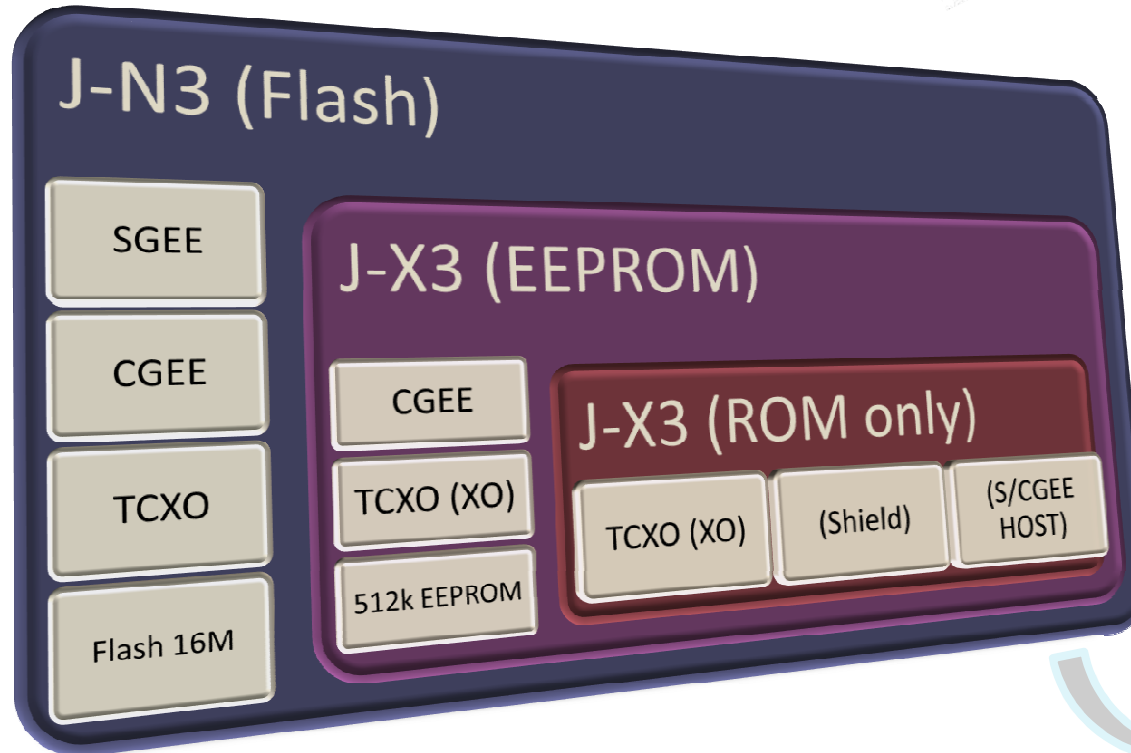
- Tracks up to 8 jammers
- Removes jammers prior to correlation

- 2 Update Rates (1Hz and 5Hz)
- Multiple interfaces: I2C, SPI and UART







Performance data based on J-F2 (1.8V)





NAVMAN WIRELESS | Jupiter[®] Family

Model	Power		Interfaces		Features										Dimension
SKU	1.8V	3.0V	UART	SPI, I2C	SGEE	CGEE	TCXO	RTC	Power on reset	Shielding Lid	MEMS (Compass, Gyro, Accelerometer)	Programmable	EEPROM	ROM	Footprint
 J-F2 1035FLA00003	•		•	•	•	•	•	•	•	•	•	•			11 x 11 x 2.2 mm
 J-R2	•		•	•		•	• (XO)	•	•		•		•		11 x 11 x 2.2 mm
J-R2-Host	•		•	•	Host	Host	• (XO)	•	•		•			•	11 x 11 x 2.2 mm
 J-N3 1028KVA00034		•	•	•	•	•	•	•	•	•	•	•			12.2 x 16 x 2.4 mm
 J-X3		•	•	•		•	• (XO)	•	•	optional	•		•		12.2 x 16 x 2.4 mm
J-X3-Host		•	•	•	Host	Host	• (XO)	•	•	optional	•			•	12.2 x 16 x 2.4 mm

All modules are **Stand-alone GPS**



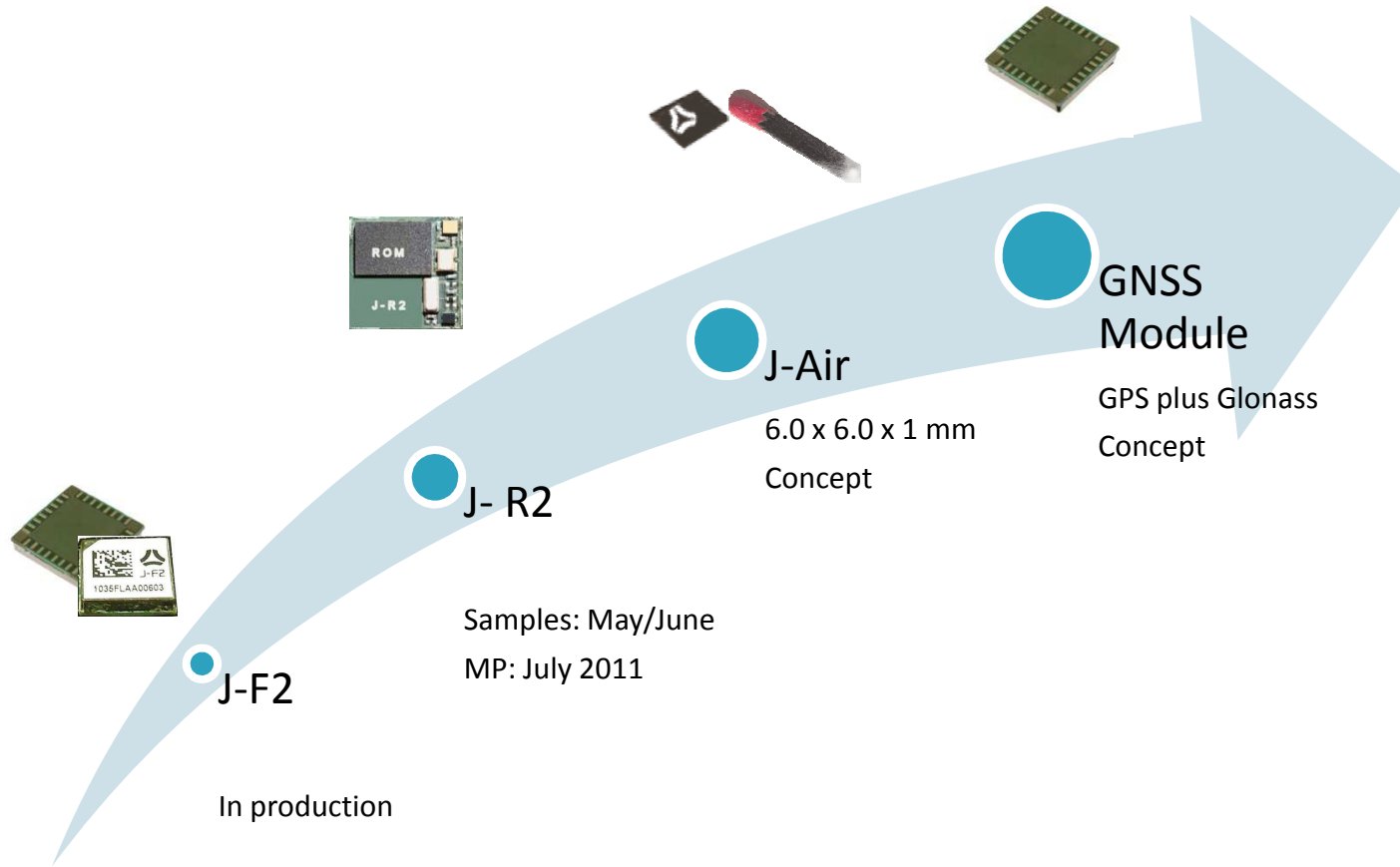
InstantFix features

Features	InstantFix Server Generated EE (SGEE)
Download Frequency	User dependent
Retrieval location	From server
Data validity	1-day, 3-day, 7-day and 14-day
Size of downloaded data	11kB per day



InstantFix features

Features	InstantFix Client Generated EE (CGEE)
Download Frequency	Generated from Broadcast ephemeris
Retrieval location	Generated from Broadcast ephemeris
Data validity	3 days
Size of downloaded data	





Unique selling proposition



People Tracking



Government/
Public Safety



Public Transport



Automotive

As well as Marine buoys, Weather balloons, Military applications, PNDs, Radar detectors, Fleet Tracking and many more.



OEM Customers





OEM Customer Applications

AVL/Fleet Management:



Toll Collecting:



People Tracking:



Animal/ Pet Tracking: WHITE BEAR TECHNOLOGIES



Radiosondes:





Why Navman Wireless

Our expertise

- We are a global SIRF Partner with more than 20 Years experience
- Customizable Solutions
- Market leading GPS Manufacturer with more than 6Million users
- We sell to large OEMs and Automotive customers following the highest industry standards
- Seasoned Team
(Rockwell, IBM, RFMD, Tele Atlas, SIRF, Conexant)

Your Benefit

- Dependable partner; free design reviews improve your solution
- Flexible; we listen to your needs
- Proven choice; no surprises
- Reliable; benefit from our stringent quality policy
- Open minded and experienced; we understand your business



Competitive Analysis – In House



NAVMAN
WIRELESS | Anti-Jamming Performance

Movie showing the jamming immunity of J-N3

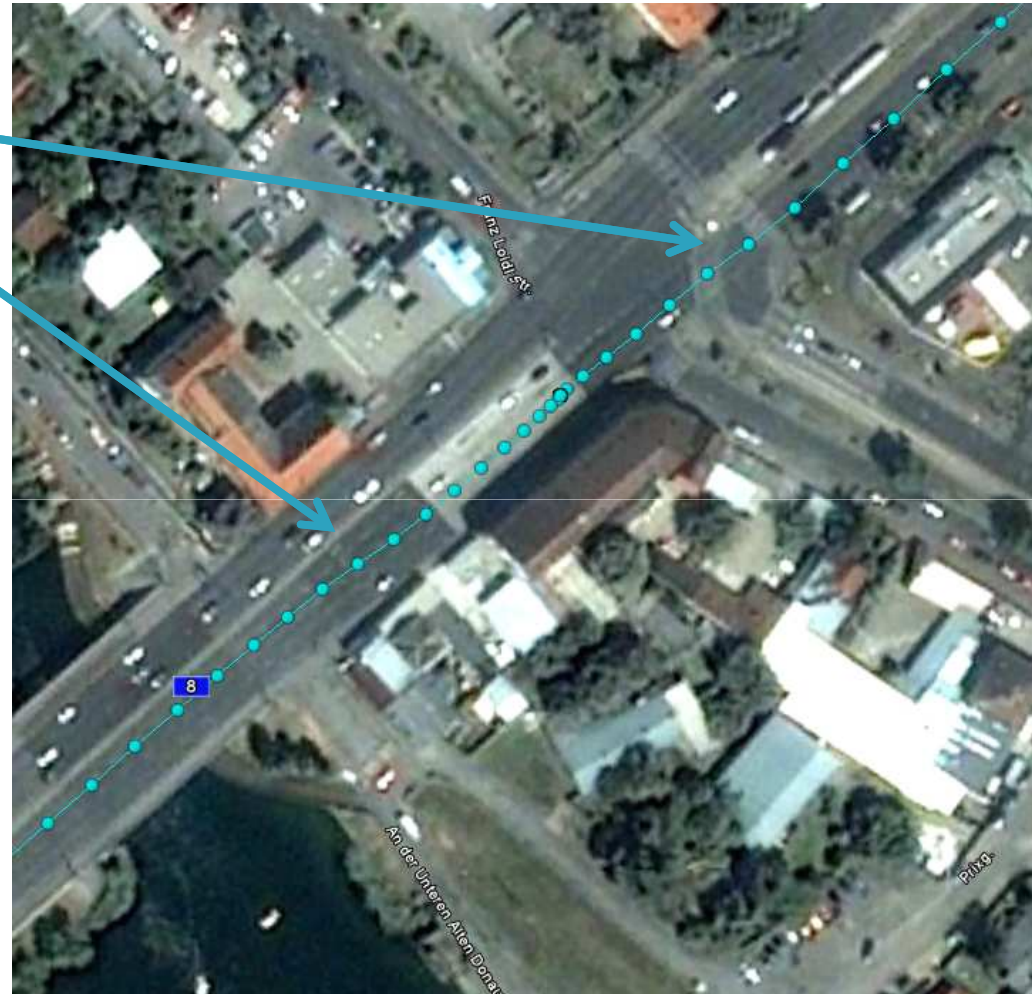
Leading Competitor against Jupiter[®] J-N3

<http://www.youtube.com/watch?v=cRDMfs8BbC0>



Real Life Tests

Lane Changes



Exact movements



Reacquisition on a train
after tunnel @ 140 km/h





Drive Tests: J-F2 vs J30DR

Run 1 (blue: J-F2; red: J30DR)



Run 2 (blue: J-F2; red: J30DR)





ANNEX

J3 Product Family

- J3: small size, lower cost



- J3-A: Antenna module





J³ vs. J-F2

Features	J ³	J-F2
SIRFAware	X	a
Jammer Removal ¹	X	a
MEMS/I ² C	X	a
Client Generated Extended Ephemeris: InstantFixII ²	X	a
Always ON	X	a

	J ³	J-F2
Autonomous Acquisition Sensitivity	-145 dBm	-148 dBm
Navigational Sensitivity	-157 dBm	-160 dBm
Tracking Sensitivity	-159 dBm	-163 dBm
Track Channels	20	48
Effective Correlators	~200,000	~400,000
Interfaces	UART	SPI/UART/I ² C

¹Tracks up to 8 jammers and removes jammers prior to correlation.