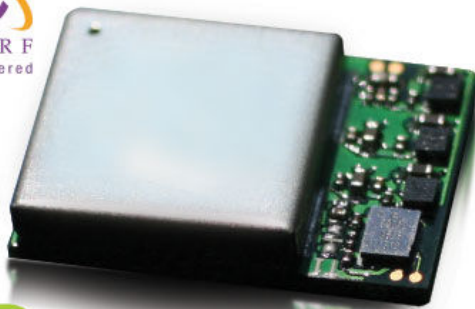




WHAT'S LEADING YOU?

Smallest Size, Low Power, Multimode A-GPS Solution.



FC Oncore™

- Small 12.0 x 16.6 x 2.5 mm footprint
- Low power consumption
- High accuracy
- 12 channel simultaneous operation
- Fast time resolution

FC Oncore is an extremely compact, low-power, high performance GPS receiver, capable of weak signal operation. This high-sensitivity, versatile multimode GPS/A-GPS module shrinks all the functional blocks of a high performance GPS receiver into a compact and easy to integrate SMD solution.

FC Oncore integrates a low-noise amplifier and fractional synthesizer in an optimized RF and electrical design. This highly compact form factor, coupled with intelligent power management, provides a cost-efficient and easy to integrate GPS solution which is ideal for high volume production.

i-lotus is one of the fastest growing GPS module receiver manufacturers in Asia. We deploy the latest technologies to provide wide array of high performance, cost effective and fast time to market GPS solutions to our customers in the global market!

“Delivering best value and highest performance GPS modules for our customers”

For enquiries, please email us at sales@ilotus.com.sg

Additional Information is available at www.ilotus.com.sg
or by contacting i-lotus at the following:

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Office : +65 6316 2237
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Email : sales@ilotus.com.sg



GPS
i-LOTUS
What's Leading You

General Characteristics	Receiver Architecture	Tracking L1, C/A Code Channels 12 Max update rate 1 Hz Max altitude/velocity <60,000 ft/<1,000 knots Protocol support SiRF Instant Binary, NMEA
	Tracking Capability	12 simultaneous satellite vehicles
Performance Characteristics	Velocity Accuracy	Speed <1 m/s Heading <0.1°
	Time To First Fix	Hot start - Autonomous <5 s Warm start - Autonomous <38 s Cold start - Autonomous <45 s MS Based - GSM coarse time <2 s MS Assisted - GSM coarse time <2 s
	Sensitivity	Autonomous acquisition -142 dBm GSM / UMTS coarse time aided -151 dBm CDMA precise time aided -151 dBm Tracking -151 dBm
	Horizontal Position Accuracy	Autonomous <3 m
	1PPS	Yes
	Antenna	Antenna Requirements
Serial Communication	System Integration	I/O Interface UART and SPI External reference clock 12-54 MHz RTC input 32.768 kHz
Electrical Characteristics	Power Requirements	Continuous Autonomous operation <120 mW Standby current 20 µA
Physical Characteristics	Dimensions (Shielded Module)	12mm x 16.6mm x 2.5mm
	Connectors	24 pad Land Grid Array reflowable, built with high temperature solder
Environmental Characteristics	Operating Temperature (Shielded Module)	-30°C to +75°C
	Storage Temperature	-40°C to +85°C
Notes	All performance figures are subjected to change without prior notice	

APPLICATIONS



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