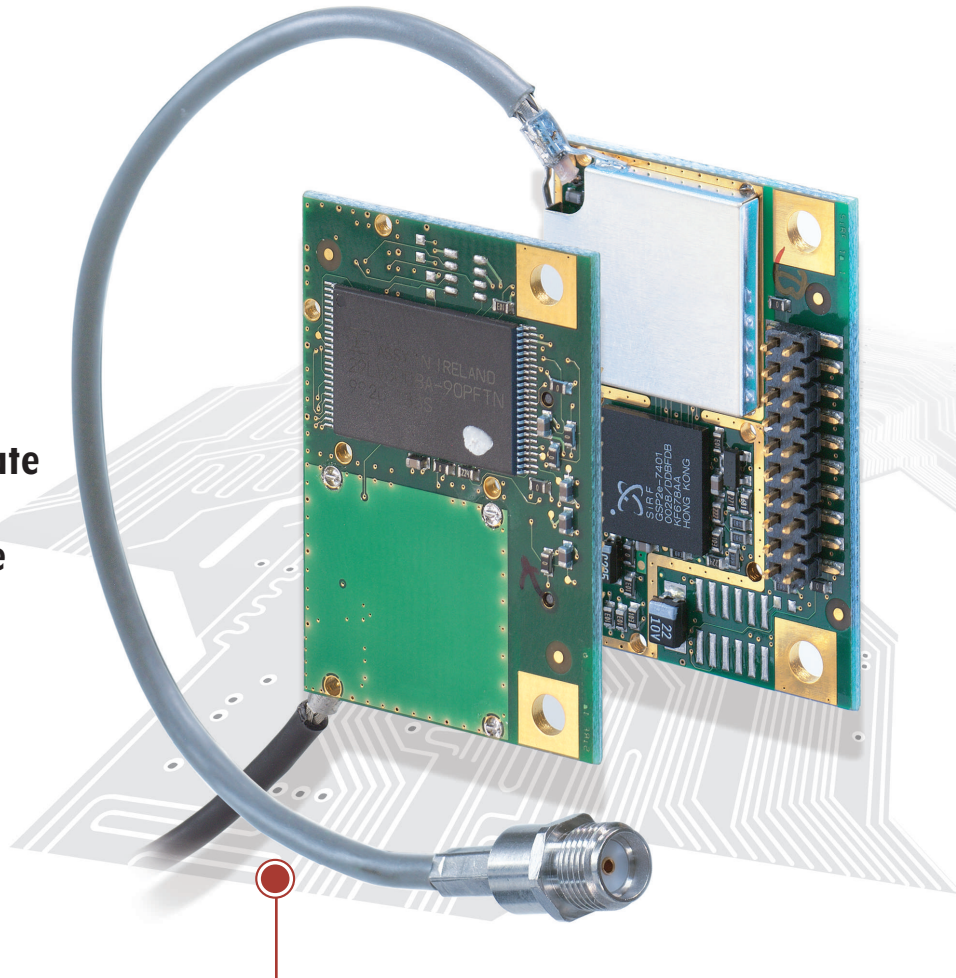


FALCOM JP3

12 channel GPS receiver

Compact low power GPS single board

- Single-board 12 parallel channel GPS receiver
- 3D/2D/DGPS navigation
- NMEA-0183, RTCM SC-104, SiRF binary format
- Superior TTFF acquisition rate
- Default trickle power mode
- Compact size



The FALCOM JP3 is the perfect platform for compact, low-power, high-efficient OEM navigation, security and monitoring solutions.

The FALCOM JP3

is a single-board 12 parallel channel GPS receiver intended as a component for OEM products. It features the SiRFstarII chipset and consists of high-performance GPS core including acquisition accelerator, DGPS processor, multipath mitigation hardware and satellite tracking engine. The FALCOM JP3 delivers major advancements in GPS performance, accuracy, computing power and hardware integration. The very compact size (41 x 30 x 7 mm) together with the default trickle power mode (max. 40 mA at 3.3 V, 800 ms OFF, 200 ms ON) and

superior average TTFF acquisition rate in cold start (< 45 s) allows the creation of variety of compact, low power, high-efficient OEM navigation, security and monitoring solutions. The standard interface board-to-board connection provides easy handling in volume production conditions as well as enabling simple after-sales support.

The FALCOM JP3 is hardware compatible to FALCOM JP2 and to the Conexant 3 V low power Jupiter board. Beside the creation of completely new applications for mobile

navigation and security this product allows for the quick and easy upgrade of existing platforms, substantially improving their price/performance ratio.

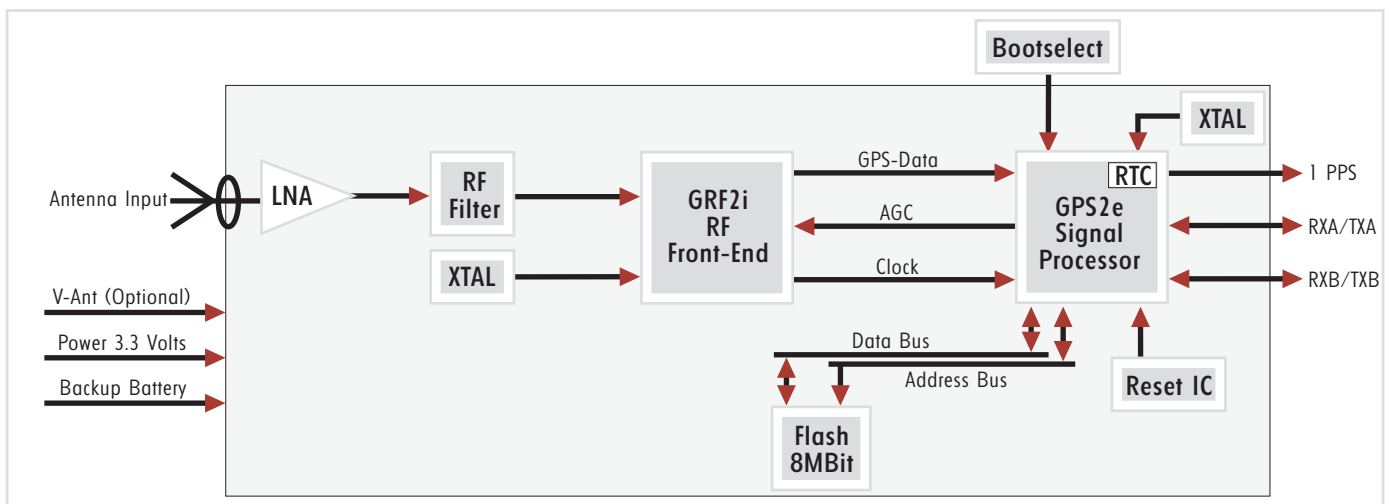
Hardware and software designers are supported by a complete evaluation kit. For specific projects using the SiRF SDK Kit and the ARM development tools a custom application can be combined with the standard GPS tracking software and thus two serial ports and 3 GPIOs can be controlled.



Evaluation Kit

- FALCOM JP3 sample
- Evaluation box
- AC/DC power adapter
- Active GPS antenna
- Modem cable
- CD with manuals and test software

Conceptual overview of FALCOM JP3



technical specifications

Architecture	12 channel, L1 1575.42 MHz, C/A code 1.023 MHz chip rate
Accuracy	Position 10 m CEP w/o SA/Velocity 0.1 m/s, w/o SA/Time 1 μ s synchronised to GPS time
DGPS Accuracy	1 to 5 m, typical, 0.05 m/s, typical
Date	WGS-84
Acquisition Rate	Snap start < 3 s, average/Hot start < 8 s, average/Warm start < 38 s, average/Cold start < 45 s, average
Operating voltage	3.3 V DC \pm 5 %
Power consumption	max. 600 mW (continues mode) max. 150 mW (default trickle power mode, 800 ms OFF, 200 ms ON) max. 15 mW (trickle power mode, 200 ms ON each 10 s)
Protocols	NMEA-0183, RTCM SC-104, SiRF binary
Interfaces	15 cm antenna cable with SMA female connector 2 x 10 (2 mm) pin field connector (2 RS232, control, power, GPIOs)

Distributor:

Temperature Range

- 20 to +55 °C operation
- 40 to +70 °C transportation
- 25 to +70 °C storage

Dimensions

41 x 30 x 7 mm

Weight

6.3 g