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Location awareness is fast becoming a vital capability for a wide variety of applications, from asset tracking and fleet management to cellular phones and handheld PDAs. TChip's GPS team has developed a low-power, super-small solution that enables position detection to be added to mobile and handheld devices in a minimum size and with the industry's lowest power consumption.



**TJ1004** is TChip's single chip L1 C/A GPS receivers. Innovative design techniques, give the **TJ1004** the industry's lowest power consumption (<5mA fully active !) Combined with a minimum number of external components this enables a super-small receiver for handheld applications. For

example, the tiny integrated receiver/antenna suitable for cellular phones and PDAs, developed in collaboration with Sarantel.

Evaluation Boards and samples of the **TJ1004** are available. Early in 2002 the Receiver IC will be complemented by the **TJ1001** an integrated 1.2-2GHz Low Noise Amplifier. TChip's world-class capability in low-power RF design provides the **TJ1001** with leading-edge performance (<2mA fully active).



In many handheld applications, cost/size, and power restrictions demand that the GPS signal processing is performed on the main system ASIC. TChip supports customers by providing the **IP1012** baseband processor as intellectual property. The **IP1012** implements correlation, and timing generation for up to 16 channels, with a flexible CPU interface.

***Enabling location-aware anything***

