



iTrax130

Development Kit

The iTrax130 Development Kit together with iSuite™ 3 SDK enables embedded software development for iTrax130 family of OEM GPS receivers

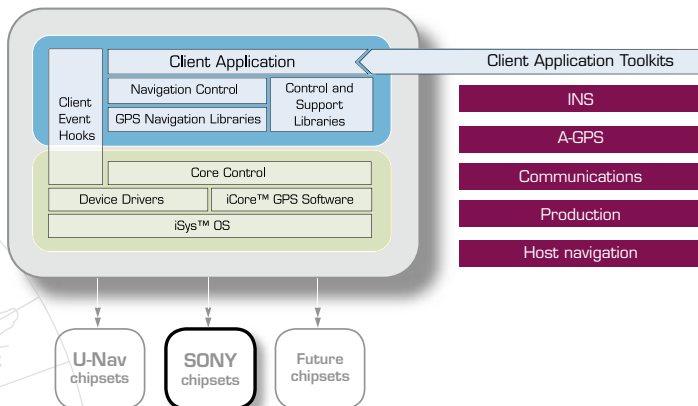
The Development Kit accesses all of the SONY® single chip LSI CXD2951-GL4 interface signals. The removable Development Board works also as a reference design implementation for the iTrax130 family of GPS receivers using CXD2951-GL4.

The Development Kit provides full support for iSuite™ 3 including a JTAG interface supporting RealView® ICE interface.



The Development Kit includes:

- Evaluation Unit with all pertinent interface electronics.
- iTrax130 Development Board featuring SONY CXD2951-GL4 LSI.
- Two Null-modem cables for serial communication.
- Universal power supply 100.240VAC 50/6+Hz, +6VDC out.
- iTrax130 Development Board Technical Interface Description
- Active Patch GPS antenna
- AA batteries for portable operation.
- GPS Workbench evaluation software





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Specifications

The iTrax130 Development Board includes:

- SONY CXD2951-GL4 single chip GPS LSI
- 8MBit Flash & 8Mbit SRAM w/ Chip Select pinheader
- ARM7 JTAG Interface supporting RealView® ICE
- Battery backup capacitor
- 2x4 pin-header for internal A/D converter
- MCX antenna connector
- Optional external reference frequency input (SMA connector)



- 40-pin header connector carrying the following signals:
Two asynchronous UART ports
1PPS output
10-bit GPIO
Reset and Boot Mode select inputs
3.3V main power supply

Software support:

- iSuite™ 3 SDK
- ARM® RealView® Development Suite version 2.2 (*)
- ARM® RealView® ICE In-Circuit-Emulator (*)
- Microsoft® Visual Studio® .NET 2003 Standard, Professional or Enterprise (*)

(*) Third party tools not included

Free system resources for iSuite 3 SDK Programmer's - iTrax130 OEM GPS receivers.

CPU Available for user applications

68% of total CPU cycles free

Code executed from RAM	Code executed from Flash
17 Dhrystone MIPS	4.0 Dhrystone MIPS

Note: 100% of the CPU can be allocated to user application by temporarily suspending the GPS functionality.

Free RAM memory

20.7 kBytes

Free Program code and constant data memory on Flash

iTrax130	553.5 kBytes
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Note: These are minimum values. Available program code space can be increased by leaving out unused system features while compiling user application.

Note: System resources are based on currently available iSuite firmware version. Available resources are subject to change without prior notice.