Spectra Quick Start SCA Development and Test Package

The Spectra Quick Start SCA Development and Test Package provides everything you need in a single package of to jump start your SCA development activities. The package includes best of its class RF capable radio platform hardware, an SCA compliant Operating Environment (Linux operating system, SCA Core Framework and middleware, SCA radio services and devices) and the market leading model driven SCA development environment. The package also includes an online getting started training session with ADLINK's SCA experts. The Spectra Quick Start SCA Development and Test Package provides an affordable, comprehensive combination of radio hardware, SCA software and getting started training for easy entry into SCA Software Defined Radio development.

Spectra Quick Start Guide Includes

- Spectra DTP4700 SCA Radio Development and Test Platform.
- Spectra CX model driven SCA radio platform and waveform development tool - 1 year subscription license (includes Rational Software Architect (RSA) subscription for one 1 year)
- One year Standard Support for the above
- Two hours of web-based training with the package.
- Optional extended SCA training on request

Spectra DTP4700

Spectra DTP4700 is a wideband, high-performance baseband and RF Software Defined Radio (SDR) development and test platform. Spectra DTP4700 supports the implementation and deployment of the next-generation of complex Software Communications Architecture (SCA) compliant networking waveforms required for military, homeland security and commercial SDRs. Spectra DTP4700 is an optimized small form-factor platform with low power consumption that enables the development, testing and deployment of waveforms.



Spectra DTP4700 SCA comes pre-integrated and packaged with:

- AM/DM37x OMAP based digital baseband processing system, providing GPP, DSP and FPGA processor resources.
- Linux OS and device drivers.
- Full duplex RF Transceiver, providing wide operating range: 400 MHz to 4 GHz or 30 MHz to 1.6 GHz.
- RF Front-End to the RF Transceiver to create a high performance fully-fieldable radio system.
- Housed in a rugged 1U enclosure with removable cover for access to the hardware.

- ADLINK's benchmark-setting SCA 2.2.2 compliant Core Framework, together with SCA Devices and ORB/COS.
- Demonstration SCA Waveform / Application.
- User documentation.
- All available off-the-shelf with simple licensing and support contracts.

Spectra DTP4700 SCA provides a number of key benefits:

- Capable of hosting high data rate waveforms.
- Wide RF operating range.
- Frequency range can support a broad range of commercial, public safety and military requirements.
- SCA development for the OMAP ARM GPP and C64x DSP processors.
- Ideal for low power consumption handheld applications.
- Efficient Linux based development environment.
- High performance, cost effective SCA development and test platform.

Spectra CX Radio Development Tool

A one year subscription for Spectra CX is also included as part of the Spectra Quick Start SCA Development and Test Package. Spectra CX is a model-driven development tool that simplifies, accelerates, and validates a significant proportion of the SCA development process. In addition, it validates SCA compliance at the architectural and unit test level.

Spectra CX provides the following capabilities:

- Generates SCA component source code in C & C++ that is correct by construction.
- Modeling, generation and deployment of SCA compliant waveform components on both GPP and DSP processors.
- Roadmap to FPGA modeling and VHDL code generation.
- Generates SCA compliant artifacts such as: XML descriptor files, compliance test reports and validation documentation.
- Spectra CX enables SCA and non-SCA software aspects to be developed together, integrated early and thoroughly tested.
- Single integration model reduces development risk.
- Results in a faster time-to-market, lower costs, better software quality and superior compliance for all SCA waveform and platform code developed using Spectra.
- SCA Radio Monitoring tool:
    - Providing a uniform platform and waveform control mechanism.
    - SCA based control of any waveform launched on the radio.
    - Support for remotely installing and uninstalling waveforms in the radio.
    - Support for switching between multiple waveforms without having to reboot the radio.

Commercial Advantages of Spectra Quick Start

The Spectra Quick Start package is a comprehensive, affordable, COTS Linux system for easy entry into the SCA SDR technology domain. It is a package that has been designed to benefit both corporate Research and Development (R&D) Teams and the individual contractor alike.

When selecting Spectra Quick Start, an organization can:

- Maximize productivity on a R&D project by providing the easiest start for an engineering team. Engineers are supported from the start through:
    - Live Web 'Quick Start' Introductory Training Session.
    - Comprehensive documentation, software models and examples to aid the hands-on learning process.
    - Commercial Grade Support Package (not just voluntary online forums).

- Minimize commercial risk of a R&D project by offering:
  - Lowest cost route to using ADLINK's award winning SCA products.
  - A method for spreading funding for the full SCA development suite purchase across two years.

For More Information

For further information regarding the Spectra Quick Start SCA Development and Test Package please e-mail: ist_info@adlinktech.com or visit: ist.adlinktech.com

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