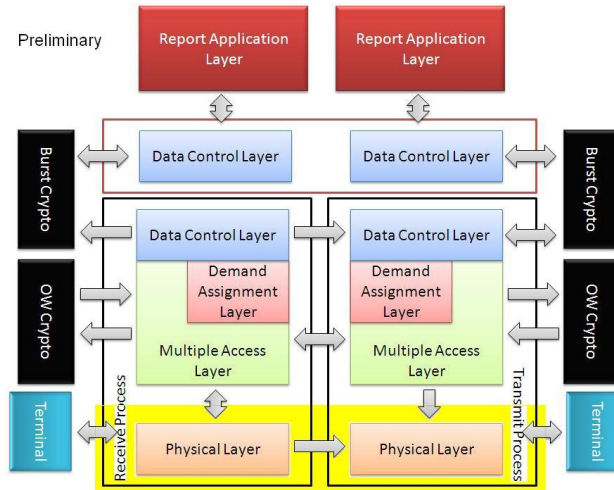


Spartan MIL-STD-188-181C Development Environment

- **Shorten your schedule and reduce your development risks** by using a full MIL-STD-188-181C compliant development & test environment.
- Multiple embedded configurations to **accelerate your terminal development and testing.**
- Full status reporting and system statistics **simplify your documentation, test & validation process.**
- **Rapidly understand and modify waveform characteristics** using internal transmit & receive test ports.
- Full Software Communications Architecture (SCA) compliant with common framework **eliminating the risk and cost of porting your application.**



(Development Environment Highlighted in Yellow)

- **Software Communications Architecture (SCA)**
EMBEDDED RADIO, MAXIMIZE WAVEFORM PORTABILITY
- **Application Programming Interface (API)**
SETUP, OPERATE & MONITOR WAVEFORM
- **Channel Controller Development**
SINGLE OR DUAL INPUT/OUTPUT
- **Software Layer (-181C)**
FULL DUPLEX, 5KHz/25KHz CHANNELS

The Spartan Ultra High Frequency (UHF) Satellite Communications (SATCOM) MIL-STD-188-181C Development Environment provides complete transmit and receive radio functionality. The MODEM is qualified for laboratory or manufacturing line support for radio test and functional verification of Integrated Waveform (IW) and Common Interactive Broadcast (CIB) systems.

UHF SATCOM provides advanced data and voice communication capabilities to the military. The new MIL-STD-188-181C is significantly more advanced compared to its predecessors. Xenotran's MIL-STD-188-181C Development Environment will speed your development time and reduce your technology investment risks.

Xenotran is now offering full development and test environments, incorporating Software Communications Architecture (SCA) compliant Software Defined Radio (SDR) technology to digital radio developers.

Developers will enjoy automatic data-formatting and receiver data extraction enabling rapid development and integration. The software interfaces are fully documented and allow simple integration of the modem with user applications. Software interfaces facilitate the development, test, and compliance of user applications. These interfaces enable user applications to perform link set-up, define data modes, start communications, and link termination.

XENOTRAN SOFTWARE SOLUTIONS for COMMUNICATIONS

- Waveforms
- Algorithms
- Logic Devices
- Custom Interfaces
- Independent Verification & Validation

WIRELESS SYSTEM DESIGN

- Requirement Analysis
- System Architecture Definition
- Design & Manufacture Custom Interfaces
- Application mapping into a variety of engines FPGA, DSP, & Power PC
- Integration of 3rd Party Components including Digital RF transceiver/receivers
- Protocol Development & Test
- Signal Processing & Bandwidth Optimization
- Full-Channel Modeling & Simulation

FACILITIES & EQUIPMENT

- Latest in Design & Development Tools
- Modeling & Simulation Environments
- Test & Validation Environments

For more information on any of our products or services please visit us on the Web at: www.Xenotran.com

Spartan MIL-STD-188-181C Development Environment Specifications

- Single card embedded radio module designed specifically for development of MIL-STD-188-181C Ultra High Frequency (UHF) Satellite Communications (SATCOM) radios.
- Features an embedded single-input, single-output or an optional dual-input, dual-output configuration to enable channel controller development.
- The Software Communications Architecture (SCA) specifies a common framework to build-up, configure, connect and tear down distributed, embedded radio applications while maximizing waveform portability.
- Complete with Application Programming Interface (API) that streamlines setup and operation of the waveform including all initialization, control, and monitoring functions.
- The development environment is a software & hardware-based physical layer implementation of the UHF SATCOM MIL-STD-188-181C waveform & supports:
 - Full Duplex Operations
 - 5KHz / 25KHz Channels
 - Multiple modulation techniques & coding schemes including CPM (with termination), SBPSK, SOQPSK, FSK, BPSK, & DEQPSK
- Features one to eight test points for waveform diagnostics.

The Xenotran Corporation

Xenotran specializes in the analysis, design and implementation of digital communication components used in wireless communication systems – including satellite and terrestrial systems. Xenotran is currently developing the industry reference for the Common Interactive Broadcast (CIB) and Joint Tactile Terminal (JTT) waveform based on the new MIL-STD-188-181C, -182B, -183B, and -186 specifications.

Over a decade of cutting edge digital signal processing research has enabled Xenotran to expand across the military and transportation sectors with unique solutions in a diversified market. Xenotran combines a rich history of proven successes with sound program management techniques so you won't need a 'lessons learned' session after the program.

SERVICES AVAILABLE

Technical Support
Installation & Setup
Maintenance
Application Support
System Test Support
Multiple Warranty Options



513 Progress Dr, Suite M
Linthicum, MD 21090
Phone 410-636-3006
Fax 410-636-0177