

THE FASTEST WAY  
TO WIRELESS.

# Design Suite

## OVERVIEW

AeroComm provides a complete development environment to help engineers get up and running with their wireless products in a matter of minutes. Each kit includes the transceivers and accessories required to integrate RF into your system, enabling:

- *Reduced R&D costs*
- *Speedy agency certification*
- *Fastest time to market*
- *Confidence in field-proven products*

## MODULES

Size, speed, range, power consumption and low cost are important issues to our customers. We address these issues with compact, high-speed 2.4GHz, 900MHz and 868MHz transceivers. Designed for fast OEM integration, our modules are also suited to applications where high reliability is essential.

## SYSTEM CONTENTS

<b>Two (2) ConnexRF™ Transceivers</b>	Choose from 2.4GHz, 900MHz or 868MHz modules. Market-ready modules help you to determine actual transmission range for your application, evaluate data throughput in the field, and choose best mechanical fit.
<b>Two (2) Adapter Boards</b>	RS232, RS485, 5V/3.3V serial TTL, and USB interfaces supported. Additional features include: 1) loopback feature to ease distance testing, 2) status/communications LED indicators, 3) switches for easy configuration/reset, 4) test points for troubleshooting.
<b>One (1) Utilities CD ROM</b>	Script-driven utilities include: 1) transmit/receive emulator, 2) single-line command interface, 3) EEPROM viewer/editor; configuration information storage file, 4) "What's This?" Help File format provides description of each configuration option, 5) error-checking prevents configuration errors.
<b>Two (2) AC Power Adapters</b>	Provide power for adapter board and transceiver. Battery power optional.
<b>Two (2) DB9 Serial Cables</b>	Connect the adapter board to PC via DB9.
<b>Two (2) USB Cables</b>	Connect the adapter board to PC via USB.
<b>Two (2) Dipole Antennas</b>	Convenient, small, cost-efficient dipole antennas plug directly into transceiver's MMCX connector; optional longer-range antennas are available.
<b>One (1) Documentation</b>	Includes OEM specifications, antenna considerations, and additional information to support the RF integration effort.
<b>Engineering Support</b>	AeroComm assigns an engineer to help with development/integration/agency approvals; maximum 2-hour response time during normal business hours.



**FREE**  
With First Order

Buy any 2.4GHz or 900MHz kit (list \$995) by June 30th and you'll get \$1000 back from your first 100 transceivers. Call for details.

## SUPPORT

AeroComm's Developer Kits feature full integration support—several hours of personal help from an experienced RF engineer. Support is not just for designers working with tight resources, limited time or varying experience. All OEMs can benefit from our highly technical, competent assistance in the complex field of RF design:

- *Testing and tuning antennas*
- *Increasing transmission range*
- *Finding best mode for data rate & network*
- *Hardware and software integration*
- *Finding best configuration for application*
- *Optimizing system timing*
- *Help with agency certification*
- *Mechanical engineering*

## PARAMETERS

### Software

In an easy menu-driven format, our Windows/DOS-compatible software provides several helpful development utilities, allowing OEMs to quickly begin performing tests for configuration modes, range measurements, antenna evaluations, power management and data throughput. Plus, designers can easily program the transceivers to any desired configuration with the EEPROM Viewer/Editor feature.

### Configuration

All ConnexRF transceivers have configuration parameters stored in EEPROM that are used to customize the Serial Interface Mode and provide for general system setup. The modules ship with default parameters already configured to enable plug-and-play; these can be changed using our development tools or with custom interfaces developed by the OEM.

### Antennas

Antenna type, gain and location are among the most critical elements of a wireless system. The ConnexRF Developer Kit allows OEMs to connect different antennas and evaluate their performance in various situations. In addition, our engineers can provide a comprehensive antenna review during the design process to determine the best antenna and location for the application.

### Compliance

RF products are required to meet regulatory compliance such as FCC (USA), IC (Canada), ETSI (Europe). Our transceiver approvals will help eliminate significant costs and time, yet regulatory compliance is still required for the final product. AeroComm's experts can help guide OEMs through the approval process.

www.aerocomm.com

Part numbers and kit specifications are listed on the back of this page.

# ConnexRF™ Design Suites

Buy any AeroComm ConnexRF complete development kit of tools and support, priced at \$995, and you'll get \$10 off each of your first 100 transceivers, a **\$1000 TOTAL BONUS**. Transceivers must be purchased within one year of the Design Suite. Promotion expires June 30th, 2004, so contact AeroComm's Sales Department now to take advantage of this special offer. 1-800-492-2320.

## 2.4GHz SYSTEMS:

AC5124 2.4GHz transceivers, -40° to +80°C, 5V, TTL serial interface, MMCX antenna connector, 10mW power output	SDK-AC5124-10
AC5124 2.4GHz transceivers, -40° to +80°C, 5V, TTL serial interface, integral microstrip antenna, 10mW power output	SDK-AC5124-10A
AC5124 2.4GHz transceivers, -40° to +80°C, 5V, TTL serial interface, MMCX antenna connector, 200mW power output	SDK-AC5124-200
AC4424 2.4GHz transceivers, -40° to +80°C, 5V, TTL serial interface, MMCX antenna connector, 10mW power output	SDK-AC4424-10
AC4424 2.4GHz transceivers, -40° to +80°C, 5V, TTL serial interface, integral microstrip antenna, 10mW power output	SDK-AC4424-10A
AC4424 2.4GHz transceivers, -40° to +80°C, 5V, TTL serial interface, MMCX antenna connector, 200mW power output	SDK-AC4424-200

## 900MHz SYSTEMS:

AC4490 900MHz transceivers, -40° to +80°C, 3.3V, TTL serial interface, MMCX antenna connector, 5mW-200mW variable power output	SDK-AC4490-200M-3
AC4490 900MHz transceivers, -40° to +80°C, 3.3V, TTL serial interface, integral antenna, 5mW-200mW variable power output	SDK-AC4490-200A-3
AC4490 900MHz transceivers, -40° to +80°C, 3.45-6V, TTL serial interface, MMCX antenna connector, 5mW-200mW variable power output	SDK-AC4490-200M-5
AC4490 900MHz transceivers, -40° to +80°C, 3.45-6V, TTL serial interface, integral antenna, 5mW-200mW variable power output	SDK-AC4490-200A-5
AC4490 900MHz transceivers, -40° to +80°C, 3.3V, TTL serial interface, MMCX antenna connector, 5mW-1000mW variable power output	SDK-AC4490-1000M-3

## 868MHz SYSTEMS:

AC4486 868MHz transceivers, -40° to +80°C, 3.3V, TTL serial interface, MMCX antenna connector, 5mW power output	SDK-AC4486-5M-3
AC4486 868MHz transceivers, -40° to +80°C, 3.3V, TTL serial interface, integral antenna, 5mW power output	SDK-AC4486-5A-3
AC4486 868MHz transceivers, -40° to +80°C, 3.45-6V, TTL serial interface, MMCX antenna connector, 5mW power output	SDK-AC4486-5M-5
AC4486 868MHz transceivers, -40° to +80°C, 3.45-6V, TTL serial interface, integral antenna, 5mW power output	SDK-AC4486-5A-5
AC4486 868MHz transceivers, -40° to +80°C, 3.3V, TTL serial interface, MMCX antenna connector, 5mW-500mW variable power output	SDK-AC4486-500M-3