

K-Band Silicon SATCOM Rx Quad Core IC Developer Kit **AWS-0102-DK** Product Overview

Developer Kit Contents

- 1 x Test board with 9 x RF connectors, 1 x DC connector, and 1 x SPI connector
- 1 x DC power cable assembly
- 1 x High speed SPI cable assembly
- 1 x SPI interposer board
- 1 x USB-SPI interface module
- 5 x AWS-0102 (1 mounted on test board)
- 1 x Flash drive including SPI driver software, full test results, and board calibration
- 1 x Software Installation and Control Software User's Guide



Applications

The AWS-0102 is a highly integrated silicon quad core IC intended for SATCOM AESA communications systems. The device supports four dual polarization radiating elements with full programmable polarization flexibility, and includes all requisite beam steering controls for 5 bit phase and gain control.

General Description

The Developer Kit includes all hardware required to interface to the AWS-0102. It enables full evaluation and RF testing of the K-Band Quad Core IC with easily defined user interfaces. The test board has been carefully designed to easily replicate the performance of the device and to provide the necessary channel to channel isolation. Calibration data is included to enable the removal of test board line losses. The SPI control is supported through a high speed cable, interposer board, and USB interface module. Driver software is supplied to provide control from a PC. DC power is supplied to the test board through a separate cable assembly. A full set of measured data is included to provide reference performance for each Developer Kit. Evaluation of the AWS-0102 with the Developer Kit will significantly shorten the time to become familiar with the operation and performance of the product, thereby reducing system development time and cost.



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