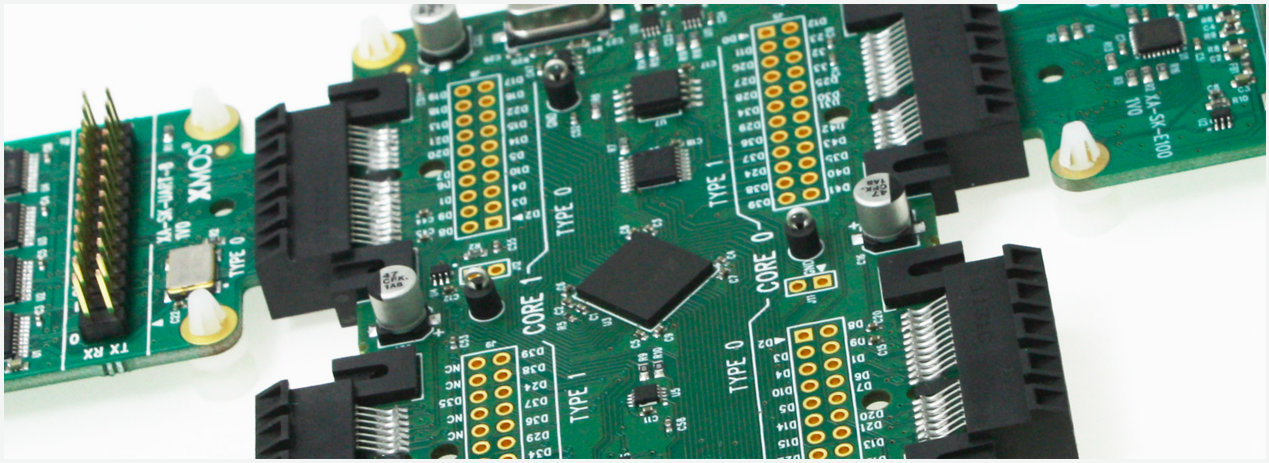
xCORE-Analog sliceKIT

MODULAR DEVELOPMENT SYSTEM KIT



FEATURES

- Flexible core board
  - 1000MIPS 16-core multicore microcontroller with 128KB SRAM (XS1-A16-128)
  - Five I/O slots for sliceCARDs (up to four can be used simultaneously)
    - Four digital slots
    - One mixed signal slot
- Mixed Signal sliceCARD
- 10/100 Ethernet sliceCARD
- xTAG-2 debug adaptor
- xTIMEcomposer software tools including xSOFTip Explorer
- xSOFTip software library

The xCORE-Analog sliceKIT kit contains everything you need to start developing applications on the powerful xCORE™ multicore microcontrollers from XMOS. The xCORE-Analog sliceKIT features our 16-core xCORE-Analog device (XS1-A16-128) which combines the low latency and timing determinism of the xCORE architecture with the simplicity and ease of use of integrated analog peripherals.

We also provide Ethernet communications and Analog I/O interfacing as part of the kit, and these capabilities can be developed with our rapidly expanding library of I/O boards (sliceCARD).

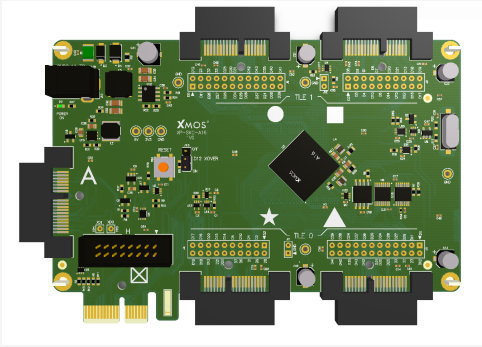
Application development is supported by our xSOFTip library, which is seamlessly integrated into xTIMEcomposer Studio, allowing you to drag and drop your multicore microcontroller configuration into the sliceKIT.

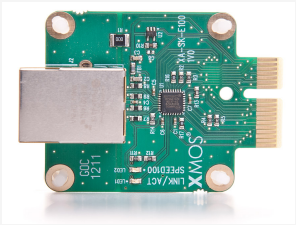
XMOS makes developing complex applications simple. sliceKIT gives you the opportunity to rapidly explore the application possibilities, and enables you to realize your designs quickly.

CONTENTS

xCORE-Analog sliceKIT core board

The board provides the xCORE-Analog MMCU with power, clocking and debug. It includes five I/O expansion slots, any four of which can be utilized simultaneously. The xTAG-2 Debug Adapter connects to the host via USB 2.0 and provides pins for JTAG control, system reset, processor debug, one duplex UART link and one duplex serial XMOS Link.



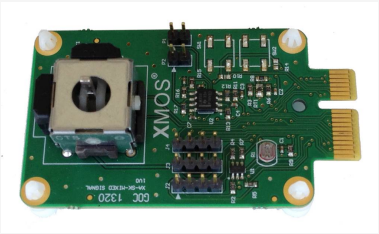


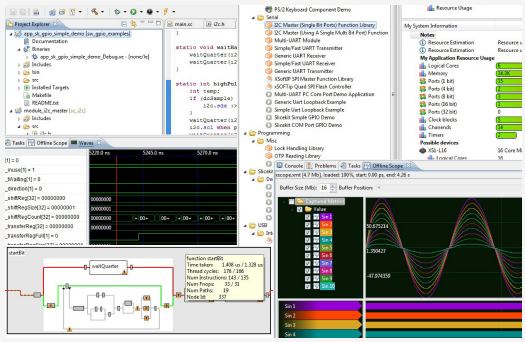
Ethernet sliceCARD

- 10/100Mb Ethernet PHY
- RJ45 connector (cable included)
- MII interface to xCORE

Mixed Signal sliceCARD

- 2 channel joystick via integrated ADC
- LDR and Thermistor
- 4 spare analog input pins
- 2 channel analog output via PWM





xTIMEcomposer Development Tools

- Eclipse based IDE
  - LLVM Compiler with multicore support
  - GDB based Debugger
  - Cycle accurate simulator
  - xSCOPE Software Logic Analyzer
  - Static Timing Analyzer
- xSOFTip software library

ORDERING INFORMATION:

For a list of XMOS distributors, please visit www.xmos.com/support/distributors.

Part number	Contents
XK-SK-A16-ST	XS1-A16 core board, Ethernet sliceCARD, Mixed Signal sliceCARD, xTAG-2 debug adapter and 12v PSU