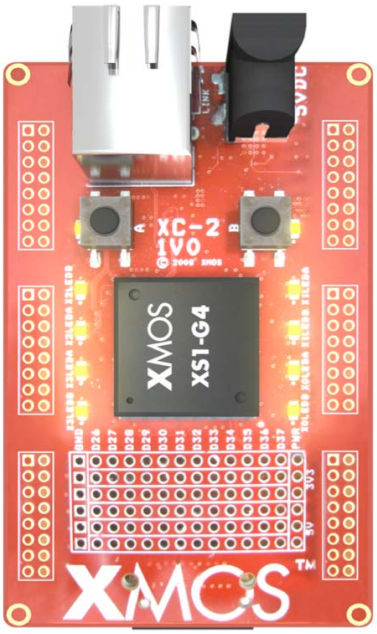
XC-2 Ethernet Kit
Product Brief

Get Connected with Software Designed Silicon

The XC-2 Ethernet Kit provides a rapid and cost effective route for developing ethernet connected designs in XMOS silicon. Based around the four-core XS1-G4 programmable device from XMOS, the XC-2 Kit provides the hardware needed to connect to a 10/100 Ethernet system using an RJ45 socket.

The credit card sized XC-2 board is easily interfaced to your development system using 0.1” pitch expansion, or you can add your own components using the on-board 0.1” pitch through-hole prototyping area.



Rapid Development Of Your System

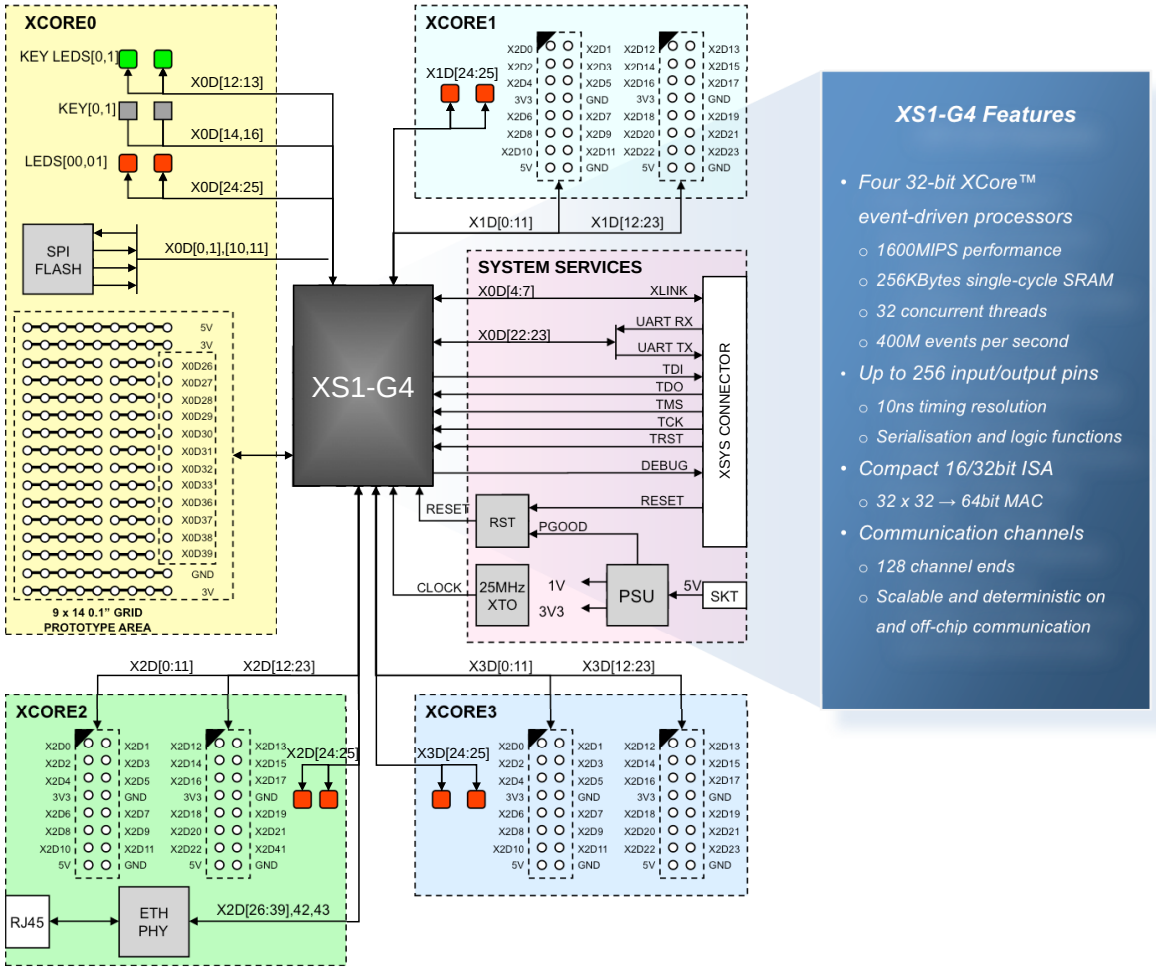
The XC-2 Ethernet Kit comes with reference designs and examples including a software MII/MAC function and embedded web-server that are available as source code.

You can download and debug your applications on the XC-2 Card using the XTAG connector. Alternatively you can program your application into the on-board SPI flash from the XS1-G4 device or the external header, providing standalone operation.

XC-2 Ethernet Kit At A Glance

- XC-2 Card features:
  - XS1-G4 four-XCore™ 400MHz device: 1600 MIPS, 256KB RAM, 32KB OTP
  - RJ45 ethernet socket
  - Two pushbuttons
  - 10 user LEDs
  - 84 pins user I/O expansion total from four XCores™
  - External link and XSYS debug interface
  - Credit card size (85 x 54 mm)
- XTAG Connector
- USB Cable
- 5V external PSU
- Comprehensive software development tool suite
  - XC, C and C++ compilers, linker and mapper
  - Simulator and visual debugger
  - Supports Windows XP SP2, Red Hat Linux 4.6 and OS X 10.4
- Example software available as source code
  - 10/100 Ethernet MAC/MII driver code
  - TCP/IP and UDP stack
  - Embedded web server
  - Interactive driver demo over ethernet

XC-2 Ethernet Card Block Diagram



Software Development

XMOS provides development tools to take your design from concept to volume production.

The tools are based on a standard embedded software flow that supports XC, C and C++. XC includes extensions to *C* for concurrency, communications, and timed input-output operations. As well as providing compilers and a debugger, the tools include utilities for deploying compiled binaries onto your development board.

The tools are intuitive and easy to use, and can be driven from the XMOS Development Environment (*XDE*) or the command line.

The tools can be downloaded free of charge for Windows, Mac and Linux platforms from www.xmos.com.