

# XTAG-2 Quick Start Guide

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*Version 9.9*

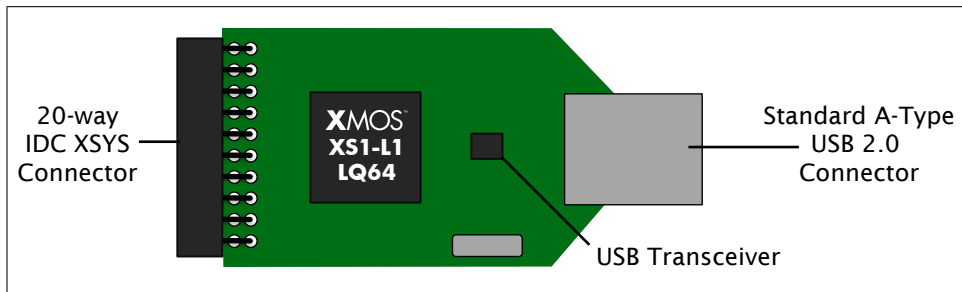


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# 1 Introduction

The XTAG-2 debug adapter is a simple adapter card based on an XS1-L1 64TQFP event-driven processor device. It can be used to connect XMOSS development boards with an XSYS2 connector to PCs, providing a JTAG interface to the board and a 5V power supply from a USB 2.0 port.



**XTAG-2 Connector**

This document explains how to install the XMOSS Design Tools and software drivers for the XTAG-2. Further information on XTAG-2 is available from <http://www.xmos.com/xtag2>

## 1.1 System Requirements

- XMOSS Design Tools (version 9.9 or later)
- Development board with XMOSS XSYS2 Connector

## 2 Windows Users

The following steps explain how to get started with the XTAG-2.

### 1. Download and install the tools

- Go to: <http://www.xmos.com/downloads> and download the Tools.
- Run the Windows Installer to install the tools. Follow the instructions on screen.

### 2. Connect your development board to your system

- Connect the 20-way IDC header on the XTAG-2 connector to the left XSYS connector on the development board.
- Plug the XTAG-2 into a USB 2.0 connector on your development system.
- Click **No** when the *New Hardware* prompt is displayed on screen asking you to connect to Windows Update.
- Click **Next** .
- Select *Install from list* and then click **Advanced** .
- Browse to the drivers installation directory (default *Program Files/XMOS/Desktop Tools/9.9/drivers/xtag2*) and select the XTAG-2 file.
- Click **Next** and follow the instructions on screen.
- Click **Finish** to complete the driver installation.

### 3. Start the tools

- Select **Start ▶ Programs ▶ XMOS ▶ Desktop Tools ▶ 9.9 ▶ XMOS Development Environment** to start the Tools.

### 3 Mac OSX Users

The following steps explain how to get started with the XTAG-2.

1. Connect the XK-1 card to your system

- Connect the 20-way IDC header on the XTAG-2 to the left XSYS connector on the XK-1 card.
- Plug the XTAG-2 into a USB 2.0 connector on your development system.

2. Download and install the tools

- Go to: <http://www.xmos.com/downloads> and download the Tools.
- Double-click the downloaded DMG file to open it, and then drag the XMOS icon into your Applications folder.
- When the tools have been installed, eject the DMG file (CMD+E) and drag it to the Trash to delete it.

3. Start the tools

- Run the XDE.app file from Finder (in the installation directory) to start the Tools.

## 4 Linux Users

The following steps explain how to get started with the XTAG-2.

### 1. Connect the XK-1 card to your system

- Connect the 20-way IDC header on the XTAG-2 debug adapter to the left XSYS connector on the XK-1 card.
- Plug the XTAG-2 into a USB 2.0 connector on your development system.
- Log into a shell with root permissions, open the file `/etc/fstab` and add the following lines to access the USB and high-speed USB file systems:

```
none /proc/bus/usb usbfs defaults,devmode=0666 0 0
none /dev/bus/usb usbfs defaults,devmode=0666 0 0
```

- Unmount the USB file systems, for example:

```
umount /proc/bus/usb
umount /dev/bus/usb
```

- Remount the USB file systems, for example:

```
mount /proc/bus/usb
mount /dev/bus/usb
```

- Log out from root access.

### 2. Download and install the tools

- Go to: <http://www.xmos.com/downloads> and download the Tools.
- Uncompress the *DesktopTools\_9.9.tgz* package to your install directory using the following command:

```
tar -xzf DesktopTools_9.9.tgz -C /home/user
```

### 3. Start the tools and follow the XK-1 tutorial

- Run the following command from the installation directory to set up the environmental variables for the Tools:

```
source SetEnv
```

- Run the following command to start the Tools:

```
xde
```

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