



SAM (Stand Alone Module) DVI to A818, or A818 to DVI SAMview Install Guide

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REVISION HISTORY:

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8/1/2008	REV -	INITIAL RELEASE	INITIAL RELEASE	J. STAHOVIAK
5/8/2009	REV A		Added XGA 1024x768 Support Update Silicon Labs Driver	J. STAHOVIAK

1 Introduction

The Great River Technology (GRT) Stand Alone Module (SAM) is a convenient way to deliver A818 functionality to any environment. The compact enclosure makes the GRT SAM a good solution for most A818 applications. The optional USB interface with user-friendly software enhances the base functions of the GRT SAM.

USB SAM is delivered in one of two configurations:

- DVI to A818 converter
- A818 to DVI converter

A variety of video formats are available, but each GRT SAM is pre-configured for a specific speed and resolution:

- SAM 1Gb 1400x1050 MONO 60Hz
- SAM 1Gb 1600x1024 MONO 60Hz
- SAM 2Gb 1024x768 RGB 60Hz
- SAM 3Gb 1400x1050 RGB 60Hz
- SAM 2Gb 1024x768 RGB 60Hz

Additional formats and protocols may be available upon request.

The optional USB interface with SAMview software provide a user friendly way to control all aspects of the GRT SAM card, allowing the user to change header data, and control FCAV timing.

This guide provides instructions for Installation of the GRT SAM USB SAMview drivers and application.

2 SAMview Installation Procedures

2.1 Cypress CP2102 Driver Installation

The SAM module utilizes the Silicon Labs CP2102 BUS to UART Bridge for host communication. The CP2102 USB to UART Bridge virtual COM port (VCP) driver is required for device operation as a virtual COM port to facilitate host communication with the SMA module. Driver version 5.30 or higher is required for proper operation. The file on the installation disk is called:

CP210x_VCP_Win2K_XP_S2K3_V5_4.exe

Execute this application and follow the instructions to install the necessary drivers.

2.2 MicroSoft Visual Basic .OCX file Installation

SAMview is a MicroSoft Visual Basic application. The application requires functionality provided in specific .OCX files. An OCX is an Object Linking and Embedding (OLE) custom control, a special-purpose program used by applications running on Microsoft's Windows systems. OCXs provide such functions as handling scroll bar movement and window resizing. The COMMCTL32.OCX and MXCOMM32.OCX are required to execute the SAMview application. These files are located on the Installation disk and should be copied to the following directory:

C:\WINDOWS\system32

This action is all that is needed to install these files.

2.3 SAMview Executable

The SAMview executable located on the installation disk can be placed in any directory. GRT recommends that it be installed in a directory called EFCAPI. The EFCAPI directory is created when the GRT A818 PCI and PCIe products are installed. If the EFCapi directory does not exist the simple create the directory and copy the SAMview application into the directory. The path the executable will be:

C:\EFCAPI\SAMView.exe

A desktop shortcut can be created and used to initiate the application.