

Introduction

The 73S1210F Multi-SAM Evaluation Board Lite is a platform that demonstrates the capabilities of the 73S1210F Smart Card Controller device. It has been designed to operate either as a standalone or as a development platform. The Multi-SAM board is a special configuration that uses a single 8010C interface device to support up to five smart cards; one full size (credit card) and up to four SIM/SAM cards. This multi-SIM/SAM configuration imposes usage limitations which are described in the *73S1210F Multi-SAM Evaluation Board Lite User Guide*.

The 73S1210F Evaluation Board Lite can be programmed to run any of the Teridian turnkey applications or a user-developed custom application. Teridian provides its Multi-SAM Pseudo-CCID application preloaded on the board and an EVM testing application on the CD.

System Requirements

- A PC running Microsoft® Windows XP and equipped with a serial port.
- Eight megabytes of disk storage for the Teridian Exerciser application and documentation.

Package Contents

- A 73S1210F/17/8010F Multi-SAM Evaluation Board Lite populated with a 73S1210F and pre-loaded with the Teridian Multi-SAM Pseudo-CCID firmware.
- A CD containing the Exerciser application generic host driver and documents.
- RS-232 serial cable, female/male, 2 meters.
- A 5V DC power supply.

Default Setup

The 73S1210F Multi-SAM Evaluation Board Lite ships with a default configuration suitable for use as a turnkey Transparent Smart Card Reader using a Pseudo-CCID over serial connection to communicate with a host PC application. The board's hardware and firmware are pre-configured by Teridian to work in this state and the information in this document assumes this default configuration. Refer to the *73S1210F Multi-SAM Evaluation Board Lite User Guide* for details on alternate hardware configurations and uses.

Software Installation on Windows XP

Follow these steps using a PC running Windows XP:

- Extract "PCCID V **y.yy** Release.zip" (where **y.yy** is the latest version of the firmware release).
 - o Create an install directory. For example: "C:\TSC\".
 - o Unzip "PCCID V **y.yy** Release.zip" to the just created folder. All applications and documentation needed to run the board with a Windows PC will be loaded to this folder.
- Connect the Serial cable between the host system and the board.
- Plug the supplied adapter into the 5V DC jack on the board.
- Press the ON/OFF button once. The power LED D4 should turn on.
- The application is now installed and the board is ready to use. The provided host application or any other host application can now be launched from Windows XP to access the smart card reader.



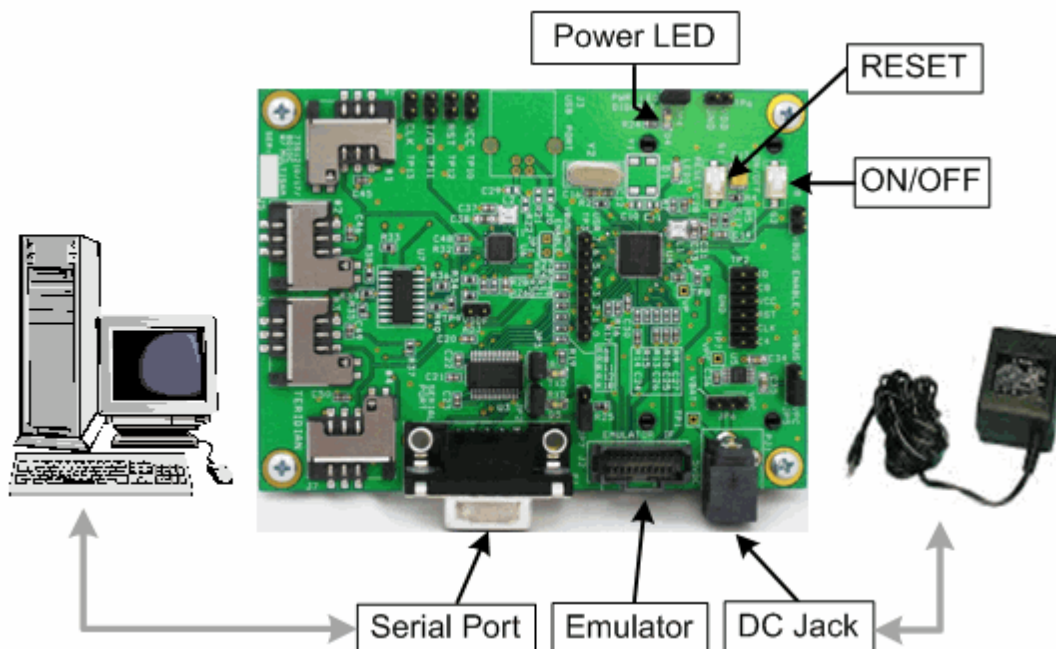
**THIS DEVELOPMENT SYSTEM IS ESD SENSITIVE! ESD PRECAUTIONS SHOULD BE
TAKEN WHEN HANDLING THE BOARD!**

Demonstration Host Application

Included on the CD is a demonstration application named "TSCP-CCID.exe" which is located in the "x:\yyy\ \PCCID Vz.zz Release\Host Applications\Windows App\App\Bin\Release" directory (where *x* refers to the drive, *yyy* refers to the directory the installation .zip file was expanded to and *z.zz* is the latest version of the firmware release). This is a host application that allows:

- Smart card activation and deactivation, in ISO or EMV mode.
- Smart card APDU commands to be exchanged with the smart card inserted in the board.
- Starting a test sequence in order to test and evaluate the board performance against an EMV test environment.

Run TSCP-CCID.exe to execute the host demonstration application. At this point the application window should appear. For additional information regarding the use of the Teridian Host application, refer to the *Pseudo-CCID Host GUI Users Guide* (UG_12xxF_037).



The CD provided with this evaluation board includes the ANSI C source code of the Teridian generic driver that will allow seamless integration into virtually any processor and operating system. For additional information, refer to the *73S12xxF Pseudo-CCID Host Application Guide* (UG_12xxF_052).

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