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Silicom Ltd. : The Open IP ODM

Rangeley Communication Collateral - Dense Form Factor (RCC-DFF) Development Kit

Quick Start Guide   45600-0012

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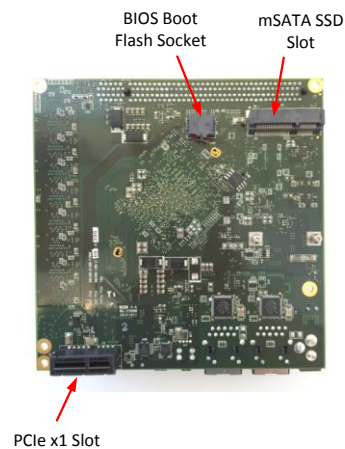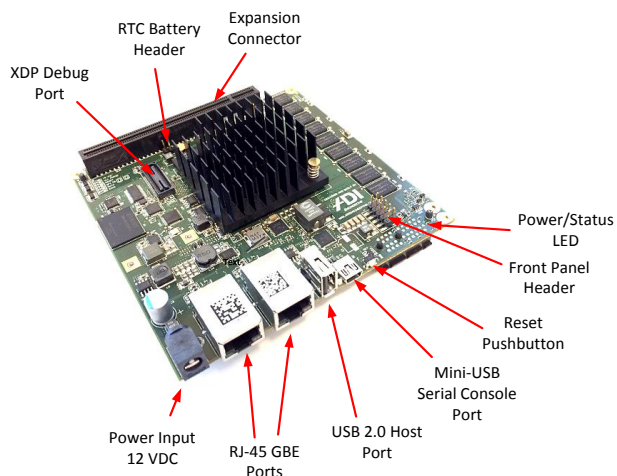Fax: (972) 9-7651977

1   INTRODUCTION

This Quick Start guide describes how to setup the RCC-DFF Development Kit and how to start using it for developing your application.

2   KIT CONTENTS

Items included in the kit:

- RCC-DFF board
- USB type-A to mini-B Cable
- AC Power Cord
- 120-240 VAC to 12 VDC power supply
- Quick Start Guide

- Safety Information
- China RoHS Declaration
- Warranty Statement

3   RCC-DFF OVERVIEW

4   SETUP AND USE

1. Download and install USB-to-UART drivers for Silicon Labs CP2104
    a.   Go to: http://www.silabs.com/products/interface/usbtouart/Pages/usb-to-uart-bridge.aspx
    b.   Select **Tools** tab and select drivers for your OS. For Windows, select **CP210x_VCP_Windows.zip**
2. Use the provided USB Mini-B cable and connect the RCC system console to the host computer
3. Verify that host computer can see one additional serial port.
4. The serial port added to the host computer will connect to the CPU console.
5. Connect to the CPU console using a terminal emulator (e.g. TeraTerm, Hyperterminal, Putty) using these settings:
    a.   Speed = 115,200
    b.   Data Bits = 8
    c.   Parity = None
    d.   Stop Bits = 1
    e.   Flow Control = None
    f.   Preferred emulation mode is ANSI
6. Using the 12 VDC power supply, apply power to the power input jack.
7. By default, the BIOS will boot to EFI shell prompt. Type "exit" to exit the EFI shell and continue booting to the onboard eMMC flash.
8. Note: To skip the EFI shell and automatically boot to the onboard eMMC flash, the default boot order must be changed in BIOS setup. To change the boot order:
    a.   Press **ESC** when requested by the BIOS to enter the BIOS setup screen
    b.   Go to **Boot** menu and change **Boot Option #1** to eMMC flash (e.g. **Generic Ultra HS-COMBO**).
    c.   Go to **Save & Exit** and select **Save Changes and Exit**
    d.   System will boot to eMMC Linux installation. Enter "**root**" at the Linux login prompt. Password is "**password**".

5   ADDITIONAL INFORMATION

- RCC-DFF User Manual
    o   Available on Silicom website. Contact Silicom for secure FTP login credentials

- Latest documentation on Rangeley hardware and software (includes software application examples)
    o   Go to Intel Business Portal (http://www.intel.com/ibl) and login. Contact your Intel representative if you do not have login credentials.
    o   Under **Platform & Solutions** heading, select **Embedded**
    o   Under the **Performance Platforms** heading, select **Embedded Platform Code Name Rangeley for Communications and Embedded Applications**. Contact your Intel representative if you do not see this option.
- Silicom Customer Service

    o   Telephone: (972) 9-7644555 (Hours: 9AM to 5PM EST M-F)