Table of Contents

Chapter 1: Stellaris® LM3S6965 Evaluation Board ................................................................. 7
  Features................................................................................................................................. 8
  Block Diagram .................................................................................................................. 8
  Evaluation Kit Contents ................................................................................................... 9
    Evaluation Board Specifications .................................................................................... 9
    Features of the LM3S6965 Microcontroller ................................................................. 9

Chapter 2: Hardware Description ......................................................................................... 11
  LM3S6965 Microcontroller .............................................................................................. 11
    Device Overview .......................................................................................................... 11
    Ethernet ......................................................................................................................... 11
    Clocking ......................................................................................................................... 11
    Reset ............................................................................................................................... 11
    Power Supplies ............................................................................................................. 12
    Debugging ..................................................................................................................... 12
  USB Device Controller Functions .................................................................................. 13
    Device Overview .......................................................................................................... 13
    USB to JTAG/SWD ....................................................................................................... 13
    Virtual COM Port ........................................................................................................ 13
    Serial Wire Out ............................................................................................................. 13
  Organic LED Display ..................................................................................................... 13
    Features ........................................................................................................................ 13
    Control Interface .......................................................................................................... 14
    Power Supply .............................................................................................................. 14
    Design Guidelines ....................................................................................................... 14
    Further Reference ...................................................................................................... 14
  Other Peripherals .......................................................................................................... 14
    Speaker .......................................................................................................................... 14
    MicroSD Card Slot ...................................................................................................... 14
    Push Switches .............................................................................................................. 14
    User LED ....................................................................................................................... 15
  Bypassing Peripherals .................................................................................................... 15
  Interfacing to the EVB ................................................................................................... 15
  Using the In-Circuit Debugger Interface ....................................................................... 16

Appendix A: Schematics .................................................................................................... 17

Appendix B: Connection Details ....................................................................................... 23
  Component Locations ..................................................................................................... 23
  Evaluation Board Dimensions ....................................................................................... 24
  I/O Breakout Pads ......................................................................................................... 24
  Recommended Connectors ............................................................................................. 25
  ARM Target Pinout ....................................................................................................... 26
  References ...................................................................................................................... 26
List of Figures

Figure 1-1. Stellaris LM3S6965 Evaluation Board Layout ................................................................. 7
Figure 1-2. LM3S6965 Evaluation Board Block Diagram ............................................................... 8
Figure 2-1. ICD Interface Mode ..................................................................................................... 16
Figure B-1. Component Locations ............................................................................................... 23
Figure B-2. Evaluation Board Dimensions .................................................................................. 24
List of Tables

Table 2-1. Stellaris LM3S6965 Evaluation Board Hardware Debugging Configurations........................................ 12
Table 2-2. Isolating On-Board Hardware........................................................................................................ 15
Table B-1. I/O Breakout Pads .......................................................................................................................... 25
Table B-2. Recommended Connectors ............................................................................................................. 25
Table B-3. 20-Pin JTAG/SWD Configuration .................................................................................................. 26
Stellaris® LM3S6965 Evaluation Board

The Stellaris® LM3S6965 Evaluation Board is a compact and versatile evaluation platform for the Stellaris LM3S6965 ARM® Cortex™-M3-based microcontroller. The evaluation kit uses the LM3S6965 microcontroller’s fully integrated 10/100 Ethernet controller to demonstrate an embedded web server.

You can use the board either as an evaluation platform or as a low-cost in-circuit debug interface (ICDI). In debug interface mode, the on-board microcontroller is bypassed, allowing programming or debugging of an external target. The kit is also compatible with high-performance external JTAG debuggers.

This evaluation kit enables quick evaluation, prototype development, and creation of application-specific designs for Ethernet networks. The kit also includes extensive source-code examples, allowing you to start building C code applications quickly.

Figure 1-1. Stellaris LM3S6965 Evaluation Board Layout
Features

The Stellaris LM3S6965 Evaluation Board includes the following features:

- Stellaris LM3S6965 microcontroller with fully-integrated 10/100 embedded Ethernet controller
- Simple setup; USB cable provides serial communication, debugging, and power
- OLED graphics display with 128 x 96 pixel resolution
- User LED, navigation switches, and select pushbuttons
- Magnetic speaker
- LM3S6965 I/O available on labeled break-out pads
- Standard ARM® 20-pin JTAG debug connector with input and output modes
- USB interface for debugging and power supply
- MicroSD card slot

Block Diagram

Figure 1-2. LM3S6965 Evaluation Board Block Diagram
Evaluation Kit Contents

The evaluation kit contains everything needed to develop and run applications for Stellaris microcontrollers including:

- LM3S6965 Evaluation Board (EVB)
- USB cable
- 20-pin JTAG/SWD target cable
- CD containing:
  - A supported version of one of the following (including a toolchain-specific Quickstart guide):
    - Keil™ RealView® Microcontroller Development Kit (MDK-ARM)
    - IAR Embedded Workbench
    - Code Sourcery GCC development tools
    - Code Red Technologies development tools
    - Texas Instruments’ Code Composer Studio™ IDE
  - Complete documentation
  - Quickstart application source code
  - Stellaris® Firmware Development Package with example source code

Evaluation Board Specifications

- Board supply voltage: 4.37–5.25 Vdc from USB connector
- Board supply current: 250 mA typ (fully active, CPU at 50 MHz)
- Break-out power output: 3.3 Vdc (60 mA max), 15 Vdc (15 mA max)
- Dimensions: 4.0” x 2.45” x 0.7” (LxWxH)
- RoHS status: Compliant

Features of the LM3S6965 Microcontroller

- 32-bit RISC performance using ARM® Cortex™-M3 v7M architecture
  - 50-MHz operation
  - Hardware-division and single-cycle-multiplication
  - Integrated Nested Vectored Interrupt Controller (NVIC)
  - 42 interrupt channels with eight priority levels
- 256 KB single-cycle Flash
- 64 KB single-cycle SRAM
- Four general-purpose 32-bit timers
- Integrated Ethernet MAC and PHY
- Three fully programmable 16C550-type UARTs
- Four 10-bit channels (inputs) when used as single-ended inputs
Features of the LM3S6965 Microcontroller

- Two independent integrated analog comparators
- Two I²C modules
- Three PWM generator blocks
  - One 16-bit counter
  - Two comparators
  - Produces two independent PWM signals
  - One dead-band generator
- Two QEI modules with position integrator for tracking encoder position
- 0 to 42 GPIOs, depending on user configuration
- On-chip low drop-out (LDO) voltage regulator
Hardware Description

In addition to a microcontroller, the Stellaris LM3S6965 evaluation board includes a range of useful peripherals and an integrated ICDI. This chapter describes how these peripherals operate and interface to the MCU.

LM3S6965 Microcontroller

Device Overview

The heart of the EVB is a Stellaris LM3S6965 ARM Cortex-M3-based microcontroller. The LM3S6965 offers 256 KB Flash memory, 50-MHz operation, an Ethernet controller, and a wide range of peripherals. Refer to the LM3S6965 data sheet (order number DS-LM3S6965) for complete device details.

The LM3S6965 microcontroller is factory programmed with a quickstart demo program. The quickstart program resides in the LM3S6965 on-chip Flash memory and runs each time power is applied, unless the quickstart has been replaced with a user program.

Ethernet

A key feature of the LM3S6965 microcontroller is its fully integrated Ethernet controller. Only a RJ45 jack with integrated magnetics and a few passive components are needed to complete the 10/100baseT interface. The RJ45 jack incorporates LEDs that indicate traffic and link status. These are automatically managed by on-chip microcontroller hardware. Alternatively, the LEDs can be software controlled by configuring those pins as general-purpose outputs.

The LM3S6965 supports automatic MDI/MDI-X so the EVB can connect directly to a network or to another Ethernet device without requiring a cross-over cable.

Clocking

The LM3S6965 microcontroller has four on-chip oscillators, three are implemented on the EVB. A 8.0-MHz crystal completes the LM3S6965’s main internal clock circuit. An internal PLL, configured in software, multiples this clock to 50-MHz for core and peripheral timing.

A small, 25-MHz crystal is used by the LM3S6965 microcontroller for Ethernet physical layer timing and is independent of the main oscillator.

Reset

The LM3S6965 microcontroller shares its external reset input with the OLED display. In the EVB, reset sources are gated through the CPLD, though in a typical application a simple wired-OR arrangement is sufficient.

Reset is asserted (active low) under any one of three conditions:

- Power-on reset
- Reset push switch SW1 held down
- Internal debug mode—By the USB device controller (U4 FT2232) when instructed by debugger
Power Supplies

The LM3S6965 is powered from a +3.3-V supply. A low drop-out (LDO) regulator regulates +5-V power from the USB cable to +3.3-V. +3.3-V power is available for powering external circuits.

A +15-V rail is available when the OLED display is active. The speaker and OLED display boost-converter operate directly from the +5-V rail.

Debugging

Stellaris microcontrollers support programming and debugging using either JTAG or SWD. JTAG uses the signals TCK, TMS, TDI, and TDO. SWD requires fewer signals (SWCLK, SWDIO, and, optionally, SWO, for trace). The debugger determines which debug protocol is used.

Debugging Modes

The LM3S6965 evaluation board supports a range of hardware debugging configurations. Table 2-1 summarizes these configurations.

Table 2-1. Stellaris LM3S6965 Evaluation Board Hardware Debugging Configurations

<table>
<thead>
<tr>
<th>Mode</th>
<th>Debug Function</th>
<th>Use</th>
<th>Selected by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Internal ICDI</td>
<td>Debug on-board LM3S6965 microcontroller over USB interface.</td>
<td>Default mode</td>
</tr>
<tr>
<td>2</td>
<td>ICDI out to JTAG/SWD header</td>
<td>The EVB is used as a USB to SWD/JTAG interface to an external target.</td>
<td>Connecting to an external target and starting debug software. The red Debug Out LED will be ON.</td>
</tr>
<tr>
<td>3</td>
<td>In from JTAG/SWD header</td>
<td>For users who prefer an external debug interface (ULINK, JLINK, etc.) with the EVB.</td>
<td>Connecting an external debugger to the JTAG/SWD header.</td>
</tr>
</tbody>
</table>

Modes 2 and 3 automatically detect the presence of an external debug cable. When the debugger software is connected to the EVB’s USB controller, the EVB automatically selects Mode 2 and illuminates the red Debug Out LED.

Debug In Considerations

Debug Mode 3 supports evaluation board debugging using an external debug interface. Mode 3 is automatically selected when a device such as a Segger J-Link or Keil ULINK is connected.

Boards marked Revision D or later automatically configure pin 1 to be a 3.3-V reference, if an external debugger is connected. To determine the revision of your board, locate the product number on the bottom of the board; for example, EK-LM3S6965-D. The last character of the product number identifies the board revision.

A configuration or board-level change may be necessary when using an external debug interface with revisions A through C of this evaluation board. Because the evaluation board supports both debug out and debug in modes, pin 1 of the 20-pin JTAG/SWD header is, by default, not connected to +3.3 V. Consequently, devices requiring a voltage on pin 1 to power their line buffers may not work.

Two solutions exist. Some debugger interfaces (such as ULINK) have an internal power jumper that, in this case, should be set to internal +3.3-V power. Refer to debugger interface
documentation for full details. However, if your debugger interface does not have a selectable power source, it may be necessary to install a 0-Ω resistor on the evaluation board to route power to pin 1. Refer to the schematics and board drawing in the appendix of this manual for the location of this resistor.

**USB Device Controller Functions**

**Device Overview**

An FT2232 device from Future Technology Devices International Ltd manages USB-to-serial conversion. The FT2232 is factory configured to implement a JTAG/SWD port (synchronous serial) on channel A and a Virtual COM Port (VCP) on channel B. This feature allows two simultaneous communications links between the host computer and the target device using a single USB cable. Separate Windows drivers for each function are provided on the Documentation and Software CD.

A small serial EEPROM holds the FT2232 configuration data. The EEPROM is not accessible by the LM3S6965 microcontroller.

For full details on FT2232 operation, go to www.ftdichip.com.

**USB to JTAG/SWD**

The FT2232 USB device performs JTAG/SWD serial operations under the control of the debugger. A CPLD (U2) multiplexes SWD and JTAG functions and, when working in SWD mode, provides direction control for the bidirectional data line.

**Virtual COM Port**

The Virtual COM Port (VCP) allows Windows applications (such as HyperTerminal) to communicate with UART0 on the LM3S6965 over USB. Once the FT2232 VCP driver is installed, Windows assigns a COM port number to the VCP channel.

**Serial Wire Out**

The evaluation board supports the Cortex-M3 serial-wire output (SWO) trace capabilities. Under debugger control, the CPLD can route the SWO datastream to the virtual communication port (VCP) transmit channel. The debugger can then decode and interpret the trace information received from the VCP. The normal VCP connection to UART0 is interrupted when using SWO. Not all debuggers support SWO. Refer to the Stellaris LM3S6965 data sheet for additional information on the trace port interface unit (TPIU).

**Organic LED Display**

The EVB features an organic LED (OLED) graphics display with 128 x 96 pixel resolution. OLED is a new technology that offers many advantages over LCD display technology.

**Features**

- RiT P14201 series display
- 128 columns by 96 rows
- High-contrast (typ. 500:1)
- Excellent brightness (120 cd/m²)
- Fast 10 us response
Control Interface

The OLED display has a built-in controller IC with synchronous serial and parallel interfaces. Synchronous serial (SSI) is used on the EVB as it requires fewer microcontroller pins. Data cannot be read from the OLED controller; only one data line is necessary. Note that the SSI port is shared with the microSD card slot. The Stellaris® Firmware Development Package (included on the Documentation and Software CD) contains complete drivers with source-code for the OLED display.

Power Supply

A +15-V supply is needed to bias the OLED display. A FAN5331 device from Fairchild combines with a few external components to complete a boost converter. When the OLED display is operating, a small amount of power can be drawn from the +15-V rail to power other devices.

Design Guidelines

The OLED display has a lifetime of about 13,000 hours. It is also prone to degradation due to burn-in, similar to CRT and plasma displays. The quickstart application includes both a screen saver and a power-down mode to extend display life. These factors should be considered when developing EVB applications that use the OLED display.

When using the EVB as an in-circuit debug interface (ICDI), the OLED display is held in reset to reduce power consumption and eliminate display wear-out.

Further Reference

For additional information on the RiT OLED display, visit www.ritekdisplay.com.

Other Peripherals

Speaker

A small, magnetic audio transducer connects through a MOSFET to PD1/PWM1, allowing a range of options for generating simple and complex tones. Use of the +5-V rail reduces switching noise on the +3.3-V rail.

MicroSD Card Slot

Removable Flash cards are an ideal media for storing data such as web page content. The source code on the CD includes example code for reading data from standard FAT formatted SD cards. All data and control transactions use the SD card’s SPI mode. Note that the SD card specification does not require that a card supports the SPI mode, but most cards do so in practice. Cards from several vendors have been used with the EVB.

MicroSD cards are very small and require careful handling, the SD card slot on the EVB is a push-push type (push to insert; push again to eject).

Note: To avoid damage, remove power before inserting or removing cards. The EVB does not implement SD card power control.

Push Switches

The EVB has five general-purpose input switches. Four are arranged in a navigation-style configuration. The fifth functions as a Select switch.
**User LED**

A user LED (LED3) is provided for general use. The LED is connected to PC5/CCP1, allowing the option of either GPIO or PWM control (brightness control). Refer to the Quickstart Application source code for an example of PWM control.

**Bypassing Peripherals**

Excluding Ethernet, the EVB’s on-board peripheral circuits require 16 GPIO lines. Two additional GPIO lines are assigned to Ethernet LEDs. This leaves 20 GPIO lines and 4 ADC channels immediately available for connection to external circuits. If an application requires more GPIO lines, the on-board hardware can be disconnected. The EVB is populated with 16 jumper links, which can be cut with a knife to isolate on-board hardware. The process can be reversed by installing 0603- 0-ohm chip resistors.

**Important:** The quickstart application will not run if one or more jumpers are removed.

**Table 2-2. Isolating On-Board Hardware**

<table>
<thead>
<tr>
<th>MCU Pin</th>
<th>EVB Function</th>
<th>To Isolate, Remove...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin 26</td>
<td>PA0/U0RX</td>
<td>JP1</td>
</tr>
<tr>
<td>Pin 27</td>
<td>PA1/U0TX</td>
<td>JP2</td>
</tr>
<tr>
<td>Pin 10</td>
<td>PD0/IDX0</td>
<td>JP3</td>
</tr>
<tr>
<td>Pin 11</td>
<td>PD1/PWM1</td>
<td>JP4</td>
</tr>
<tr>
<td>Pin 30</td>
<td>PA4/SS10RX</td>
<td>JP5</td>
</tr>
<tr>
<td>Pin 31</td>
<td>PA5/SS10TX</td>
<td>JP6</td>
</tr>
<tr>
<td>Pin 28</td>
<td>PA2/SS10CLK</td>
<td>JP7</td>
</tr>
<tr>
<td>Pin 22</td>
<td>PC7/PHB0</td>
<td>JP8</td>
</tr>
<tr>
<td>Pin 29</td>
<td>PA3/SS10FSS</td>
<td>JP9</td>
</tr>
<tr>
<td>Pin 73</td>
<td>PE1/PWM5</td>
<td>JP10</td>
</tr>
<tr>
<td>Pin 74</td>
<td>PE2/PHB1</td>
<td>JP11</td>
</tr>
<tr>
<td>Pin 72</td>
<td>PE0/PWM4</td>
<td>JP12</td>
</tr>
<tr>
<td>Pin 75</td>
<td>PE3/PHA1</td>
<td>JP13</td>
</tr>
<tr>
<td>Pin 61</td>
<td>PF1/IDX1</td>
<td>JP14</td>
</tr>
<tr>
<td>Pin 47</td>
<td>PF0/PWM0</td>
<td>JP15</td>
</tr>
<tr>
<td>Pin 23</td>
<td>PC6/CCP3</td>
<td>JP16</td>
</tr>
</tbody>
</table>

**Interfacing to the EVB**

An array of accessible I/O signals makes it easy to interface the EVB to external circuits. All LM3S6965 I/O lines (except those with both JTAG and SWD functions) are brought out to 0.1” pitch pads. For quick reference, silk-screened labels on the PCB show primary pin functions.

Table B-1 on page 25 has a complete list of I/O signals as well as recommended connectors.
Most LM3S6965 I/O signals are +5-V tolerant. Refer to the LM3S6965 data sheet for detailed electrical specifications.

Using the In-Circuit Debugger Interface

The Stellaris LM3S6965 Evaluation Kit can operate as an In-Circuit Debugger Interface (ICDI). ICDI acts as a USB to the JTAG/SWD adaptor, allowing debugging of any external target board that uses a Stellaris microcontroller. See “Debugging Modes” on page 12 for a description of how to enter Debug Out mode.

Figure 2-1. ICD Interface Mode

The debug interface operates in either Serial-Wire Debug (SWD) or full JTAG mode, depending on the configuration in the debugger IDE.

The IDE/debugger does not distinguish between the on-EVB Stellaris microcontroller and an external Stellaris microcontroller. The only requirement is that the correct Stellaris device is selected in the project configuration.
Schematics

This section contains the schematics for the LM3S6965 evaluation board:

- LM3S6965 Micro and 10/100 Ethernet on page 18
- OLED Display, Switches, and Audio on page 19
- USB, Debugger Interfaces, and Power on page 20
- JTAG Logic with Auto Mode Detect and Hibernate on page 21
Schematic page 2

128x96 OLED Graphics Display

SOUND 30K
BZ1 NFT-03A

microSD Card Slot

Speaker Circuit

+3.3V 50mA Power Supply for OLED Display

Reset SW1
Select SW2
Up SW3
Down SW4
Left SW5
Right SW6

User Switches

Status LEDs

Debug Out

Power

Status

LED

LED2

Green

LED3
Red

LED4

Green
Connection Details

This appendix contains the following sections:
- Component Locations
- Evaluation Board Dimensions
- I/O Breakout Pads
- ARM Target Pinout

Component Locations

Figure B-1. Component Locations
I/O Breakout Pads

The LM3S6965 EVB has 44 I/O pads, 14 power pads, and 2 crystal connections, for a total of 60 pads. Connection can be made by soldering wires directly to these pads, or by using 0.1" pitch headers and sockets.
Note: In Table B-2, an asterisk (*) by a signal name (also on the EVB PCB) indicates the signal is normally used for on-board functions. Normally, you should cut the associated jumper (JP1-15) before using an assigned signal for external interfacing.

### Table B-1. I/O Breakout Pads

<table>
<thead>
<tr>
<th>Description</th>
<th>Pad No.</th>
<th>Description</th>
<th>Pad No.</th>
<th>Description</th>
<th>Pad No.</th>
<th>Description</th>
<th>Pad No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD4/CCP0</td>
<td>34</td>
<td>PB4/C0-</td>
<td>33</td>
<td>PB4/CCP0</td>
<td>34</td>
<td>+12 V</td>
<td>35</td>
<td>GND</td>
</tr>
<tr>
<td>GND</td>
<td>30</td>
<td>PD7/CCP1</td>
<td>29</td>
<td>GND</td>
<td>30</td>
<td>PB7/TRST</td>
<td>37</td>
<td>PC2/TDI*</td>
</tr>
<tr>
<td>ADC1</td>
<td>28</td>
<td>ADC0</td>
<td>27</td>
<td>PC3/TDO*</td>
<td>41</td>
<td>PE3/PHA1*</td>
<td>38</td>
<td>PC3/TDO*</td>
</tr>
<tr>
<td>ADC3</td>
<td>26</td>
<td>PC2/TDI*</td>
<td>18</td>
<td>PB6/C0+</td>
<td>40</td>
<td>PE2/PHB1*</td>
<td>39</td>
<td>PC2/TDI*</td>
</tr>
<tr>
<td>IDX0*</td>
<td>24</td>
<td>PB6/C0+</td>
<td>23</td>
<td>GND</td>
<td>44</td>
<td>GND</td>
<td>41</td>
<td>PE2/PHB1*</td>
</tr>
<tr>
<td>PD2/UIRX</td>
<td>22</td>
<td>PD1/PWM1*</td>
<td>21</td>
<td>ADC2</td>
<td>45</td>
<td>PE0/PWM4*</td>
<td>42</td>
<td>PE1/PWM5*</td>
</tr>
<tr>
<td>PG1/U2TX</td>
<td>20</td>
<td>PD3/U1TTX</td>
<td>19</td>
<td>GND</td>
<td>46</td>
<td>PE3/PHY1*</td>
<td>43</td>
<td>PE1/PWM5*</td>
</tr>
<tr>
<td>PC7/PHB0*</td>
<td>18</td>
<td>PG0/U2RX</td>
<td>17</td>
<td>PD7/CCP1</td>
<td>47</td>
<td>PB2/SCL0</td>
<td>44</td>
<td>PE3/PHY1*</td>
</tr>
<tr>
<td>PC5/C1+</td>
<td>16</td>
<td>PC6/CCP3*</td>
<td>15</td>
<td>GND</td>
<td>48</td>
<td>PB3/SDA0</td>
<td>45</td>
<td>PC4/PHA0</td>
</tr>
<tr>
<td>GND</td>
<td>14</td>
<td>PC4/PHA0</td>
<td>13</td>
<td>PC1/U0RX</td>
<td>49</td>
<td>PB1/PWM3</td>
<td>46</td>
<td>PC6/PHB0*</td>
</tr>
<tr>
<td>+3.3 V</td>
<td>12</td>
<td>PA0/U0RX*</td>
<td>11</td>
<td>PA0/U0RX*</td>
<td>50</td>
<td>GND</td>
<td>47</td>
<td>PA1/U0TX*</td>
</tr>
<tr>
<td>PA1/U0TX*</td>
<td>10</td>
<td>PA2/SICLK*</td>
<td>9</td>
<td>PA2/SICLK*</td>
<td>51</td>
<td>GND</td>
<td>48</td>
<td>PA2/SICLK*</td>
</tr>
<tr>
<td>PA3/SFSS*</td>
<td>8</td>
<td>PA4/SIIRX*</td>
<td>7</td>
<td>PA6/SCL1</td>
<td>52</td>
<td>GND</td>
<td>49</td>
<td>PA3/SFSS*</td>
</tr>
<tr>
<td>PA5/SSITX*</td>
<td>6</td>
<td>PA6/SCL1</td>
<td>5</td>
<td>GND</td>
<td>53</td>
<td>PF3/LED0</td>
<td>50</td>
<td>PA5/SSITX*</td>
</tr>
<tr>
<td>PA7/SDA1</td>
<td>4</td>
<td>GND</td>
<td>3</td>
<td>GND</td>
<td>54</td>
<td>PF2/LED1</td>
<td>51</td>
<td>PA7/SDA1</td>
</tr>
<tr>
<td>GND</td>
<td>2</td>
<td>+5 V</td>
<td>1</td>
<td>+5 V</td>
<td>55</td>
<td>GND</td>
<td>52</td>
<td>PA5/SSITX*</td>
</tr>
</tbody>
</table>

### Recommended Connectors

Connection can be made by soldering wires directly to pads or using 0.1” pitch headers and sockets.

### Table B-2. Recommended Connectors

|-----------|------------|------------------------|-------------------|---------------|------------------|-------------------|-------------------|------------------------|-------------------|-------------------|-------------------|

January 6, 2010
**ARM Target Pinout**

In ICDI input and output mode, the Stellaris LM3S6965 Evaluation Kit supports ARM’s standard 20-pin JTAG/SWD configuration. The same pin configuration can be used for debugging over Serial Wire Debug (SWD) and JTAG interfaces. The debugger software, running on the PC, determines which interface protocol is used.

The Stellaris target board should have a 2x10 0.1” pin header with signals as indicated in Table B-3. This applies to both an external Stellaris MCU target (Debug output mode) and to external JTAG/SWD debuggers (Debug input mode).

**Table B-3. 20-Pin JTAG/SWD Configuration**

<table>
<thead>
<tr>
<th>Function</th>
<th>Pin</th>
<th>Pin</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCC</td>
<td>1</td>
<td>2</td>
<td>nc</td>
</tr>
<tr>
<td>nc</td>
<td>3</td>
<td>4</td>
<td>GND</td>
</tr>
<tr>
<td>TDI</td>
<td>5</td>
<td>6</td>
<td>GND</td>
</tr>
<tr>
<td>TMS</td>
<td>7</td>
<td>8</td>
<td>GND</td>
</tr>
<tr>
<td>TCK</td>
<td>9</td>
<td>10</td>
<td>GND</td>
</tr>
<tr>
<td>NC</td>
<td>11</td>
<td>12</td>
<td>GND</td>
</tr>
<tr>
<td>TDO</td>
<td>13</td>
<td>14</td>
<td>GND</td>
</tr>
<tr>
<td>nc</td>
<td>15</td>
<td>16</td>
<td>GND</td>
</tr>
<tr>
<td>nc</td>
<td>17</td>
<td>18</td>
<td>GND</td>
</tr>
<tr>
<td>nc</td>
<td>19</td>
<td>20</td>
<td>GND</td>
</tr>
</tbody>
</table>

ICDI does not control RST (device reset) or TRST (test reset) signals. Both reset functions are implemented as commands over JTAG/SWD, so these signals are not necessary.

It is recommended that connections be made to all GND pins; however, both targets and external debug interfaces must connect pin 18 and at least one other GND pin to GND.

**References**

In addition to this document, the following references are included on the Stellaris® LM3S6965 Evaluation Kit documentation CD-ROM and are also available for download at www.ti.com/stellaris:

- Stellaris LM3S6965 Evaluation Kit Quickstart Guide for appropriate tool kit (see “Evaluation Kit Contents,” on page 10)
- Stellaris LM3S6965 Read Me First for the CAN Evaluation Kit
- StellarisWare® Driver Library, Order number SW-DRL
- StellarisWare® Driver Library User’s Manual, publication number SW-DRL-UG
- Stellaris LM3S6965 Data Sheet, publication DS-LM3S6965
Additional references include:

- Future Technology Devices Incorporated FT2232C Datasheet

  Information on development tool being used:
  - RealView MDK web site, www.keil.com/arm/rvmdkkit.asp
  - IAR Embedded Workbench web site, www.iar.com
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<th>Logic</th>
<th>Power Mgmt</th>
<th>Microcontrollers</th>
<th>RFID</th>
<th>RF/IF and ZigBee® Solutions</th>
</tr>
</thead>
</table>

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