

Other Information

To obtain the most recent and complete documentation for this demonstration board, including:

- User's Guide
- Board Description
- Board Schematics
- Source Code
- Application Examples
- Links to Web Seminars

please refer to the Microchip web site: www.microchip.com/usb

Americas

Atlanta - 678-957-9614
 Boston - 774-760-0087
 Chicago - 630-285-0071
 Dallas - 972-818-7423
 Detroit - 248-538-2250
 Kokomo - 765-864-8360
 Los Angeles - 949-462-9523
 Phoenix - 480-792-7200
 Santa Clara - 408-961-6444
 Toronto - 905-673-0699

Asia/Pacific

Australia - Sydney - 61-2-9868-6733
 China - Beijing - 86-10-8528-2100
 China - Chengdu - 86-28-8665-5511
 China - Hong Kong SAR - 852-2401-1200
 China - Nanjing - 86-25-8473-2460
 China - Qingdao - 86-532-8502-7355
 China - Shanghai - 86-21-5407-5533
 China - Shenyang - 86-24-2334-2829
 China - Shenzhen - 86-755-8203-2660
 China - Wuhan - 86-27-5980-5300
 China - Xiamen - 86-592-2388138
 China - Xian - 86-29-8833-7252
 China - Zhuhai - 86-756-3210040
 India - Bangalore - 91-80-4182-8400
 India - New Delhi - 91-11-4160-8631
 India - Pune - 91-20-2566-1512
 Japan - Yokohama - 81-45-471-6166
 Korea - Daegu - 82-53-744-4301
 Korea - Seoul - 82-2-554-7200
 Malaysia - Kuala Lumpur - 60-3-6201-9857
 Malaysia - Penang - 60-4-227-8870
 Philippines - Manila - 63-2-634-9065
 Singapore - 65-6334-8870
 Taiwan - Hsin Chu - 886-3-572-9526
 Taiwan - Kaohsiung - 886-7-536-4818
 Taiwan - Taipei - 886-2-2500-6610
 Thailand - Bangkok - 66-2-694-1351

Europe

Austria - Weis - 43-7242-2244-39
 Denmark - Copenhagen - 45-4450-2828
 France - Paris - 33-1-69-53-63-20
 Germany - Munich - 49-89-627-144-0
 Italy - Milan - 39-0331-742611
 Netherlands - Drunen - 31-416-690399
 Spain - Madrid - 34-91-708-08-90
 UK - Wokingham - 44-118-921-5869

01/02/08



The Microchip name and logo and the Microchip logo are registered trademarks of Microchip Technology Incorporated in the U.S.A. and other countries. PICtail is a trademark of Microchip Technology Incorporated in the U.S.A. and other countries. All other trademarks mentioned herein are property of their respective companies. © 2008, Microchip Technology Incorporated, Printed in the U.S.A. All Rights Reserved. 9/08



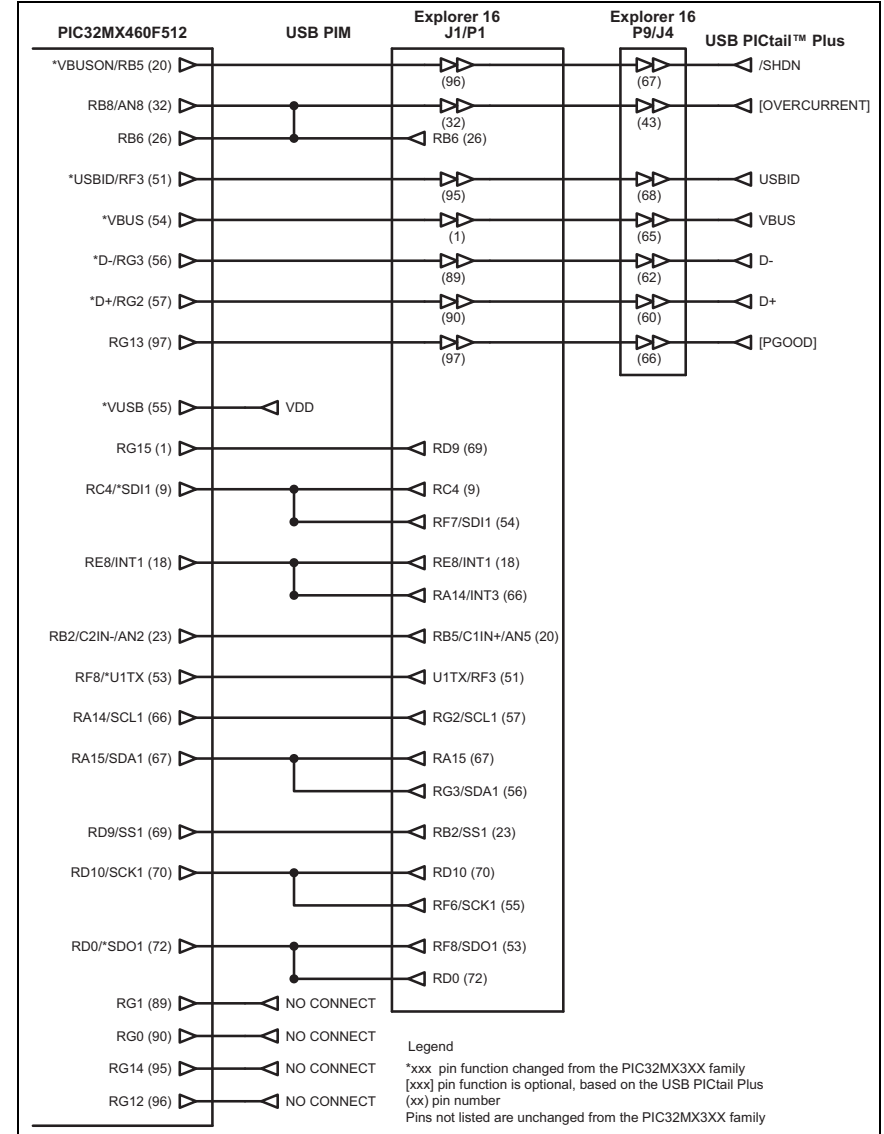
PIC32 USB Plug-In Module for Explorer 16 Development Board

Overview

The PIC32 USB Plug-In Module (PIM) demonstrates the capabilities of PIC32MX4XX microcontrollers using the Explorer 16 Development Board and the PICtail™ Plus Daughter Boards. This supports USB device, embedded host, and On-The-Go (OTG) designs when used in conjunction with the Explorer 16 and the USB PICtail Plus Daughter Board. The pin out for the PIC32 family of USB On-The-Go microcontrollers varies slightly from that of the general purpose (GP) family. Therefore, on the USB PIM (MA320002), signals from the MCU are routed differently than those on the GP PIM (MA320001). This routing is intended to maximize the compatibility of the USB PIM with the Explorer 16 and its PICtail Plus daughter cards, therefore, some signals have changed location. See Figure 1 for an overview of the PIM routing changes.

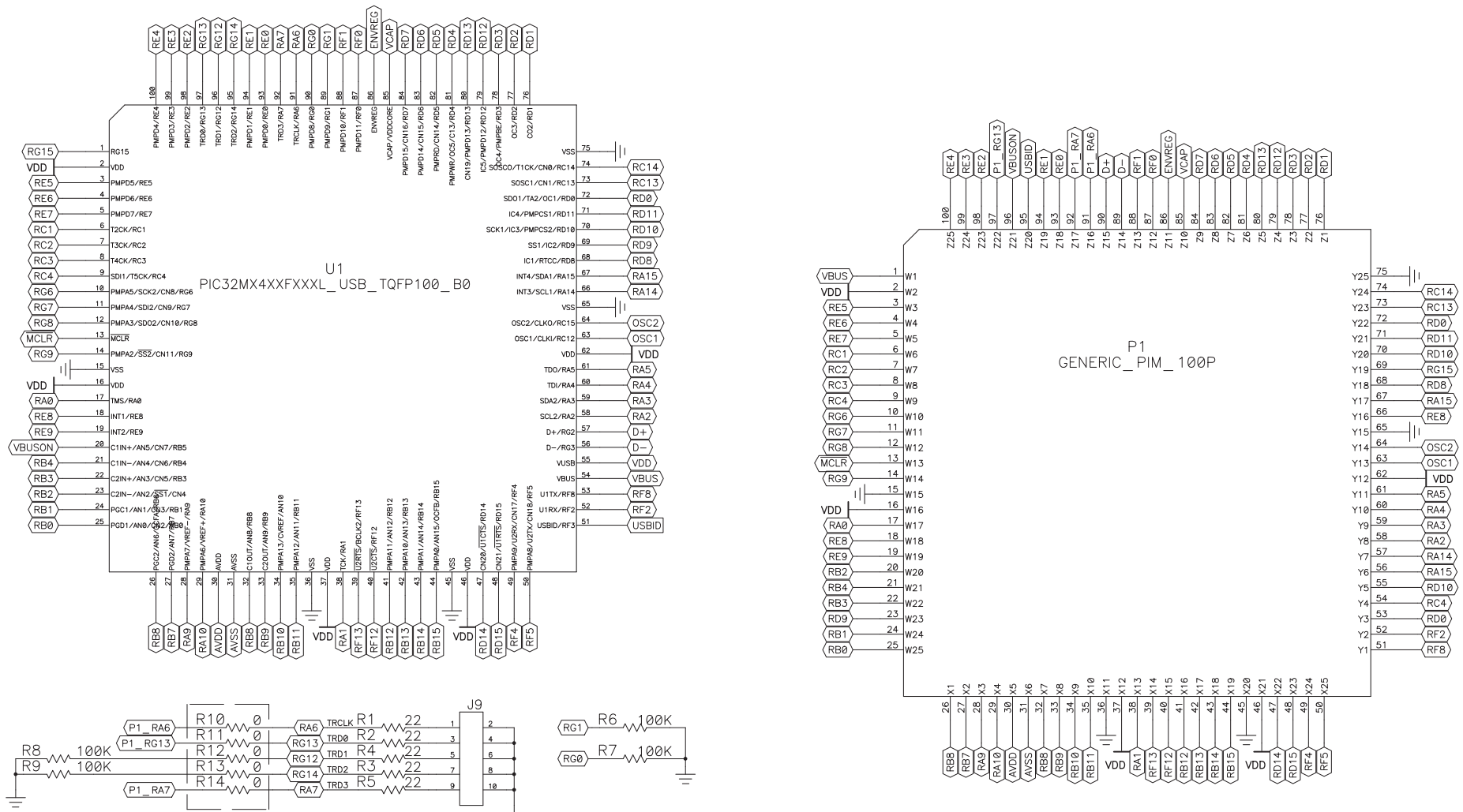
Consult the PIM schematic (Figure 2) and the PIC32MX3XX/4XX family data sheet for additional details.

Figure 1: USB Pim Interconnect Diagram



PIC32 PIM for Explorer 16

Figure 2: PIC32 USB Plug-In Module Schematic



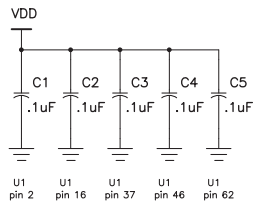
* Remove (R10–R14) to Isolate Trace Pins from Application Circuit.

NOTES:

UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS, 5% 1/4W. CAPACITANCE VALUES ARE IN MICROFARADS.

DEVICE NAMES/NUMBERS SHOWN HERE ARE FOR REF ONLY AND MAY DIFFER FROM ACTUAL NUMBER. ACTUAL NUMBERS ARE FOUND IN THE BOM FOR THIS ASSEMBLY.

ALL COMPONENTS ARE RoHS COMPLIANT.



NOTES:
Mount all caps & resistors on solder side.