

PIC32 USB Plug-In Module for the Explorer 16 Development Board

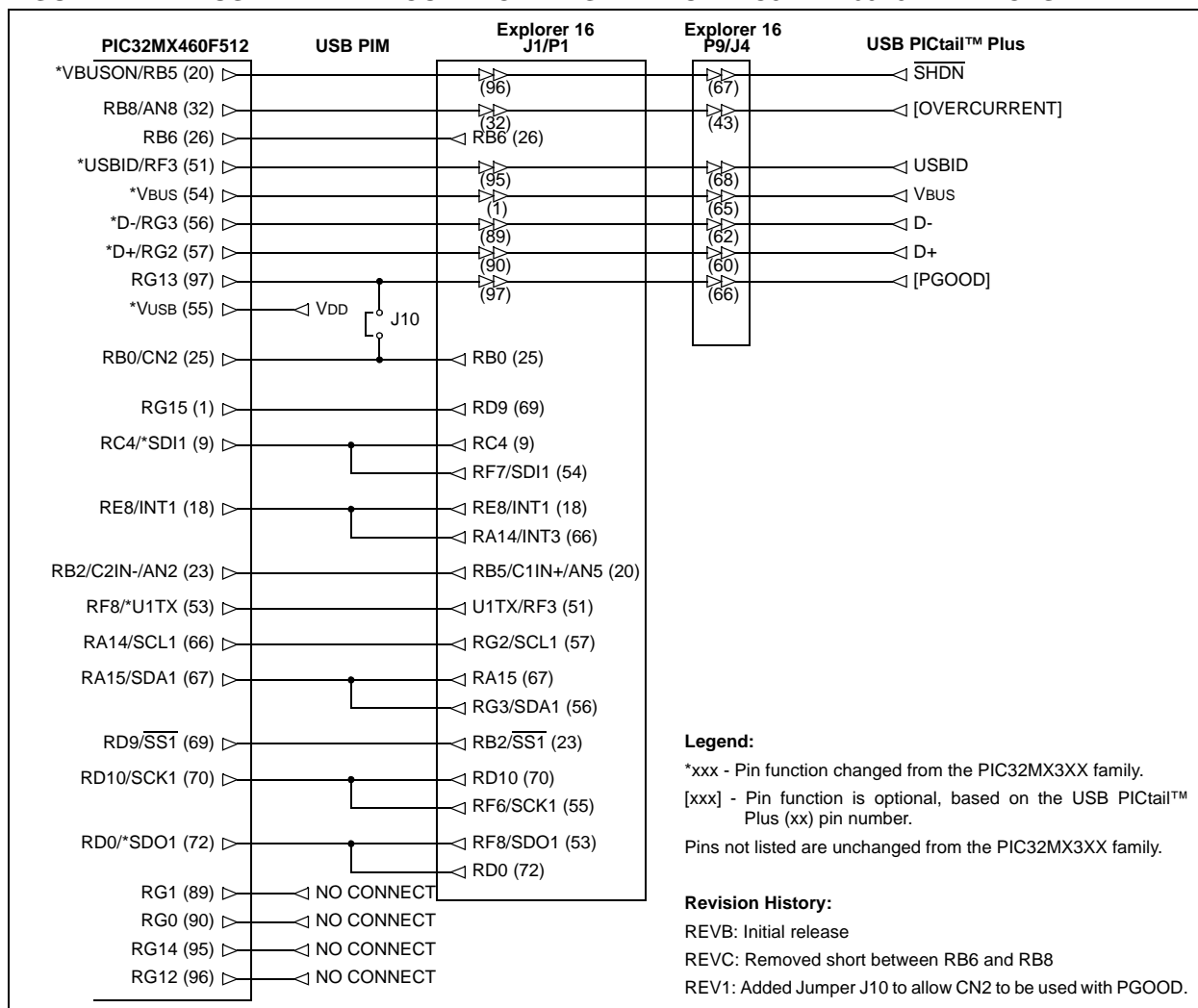
Overview

The PIC32 USB Plug-In Module (PIM) demonstrates the capabilities of PIC32MX460F512 and PIC32MX795F512 microcontrollers using the Explorer 16 Development Board and the PICtail™ Plus Daughter Boards. This PIM 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 pinout 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 and Figure 3 for an overview of the PIM routing changes.

Refer the PIM schematics (see Figure 2 and Figure 4 and the PIC32MX4XX (DS61143) and PIC32MX5XX/6XX/7XX (DS61156) family data sheets for additional details.

FIGURE 1: USB PIM INTERCONNECT DIAGRAM FOR PIC32MX460F512 DEVICES



PIC32MX

FIGURE 2: PIC32 USB PLUG-IN MODULE SCHEMATIC FOR PIC32MX460F512 DEVICES

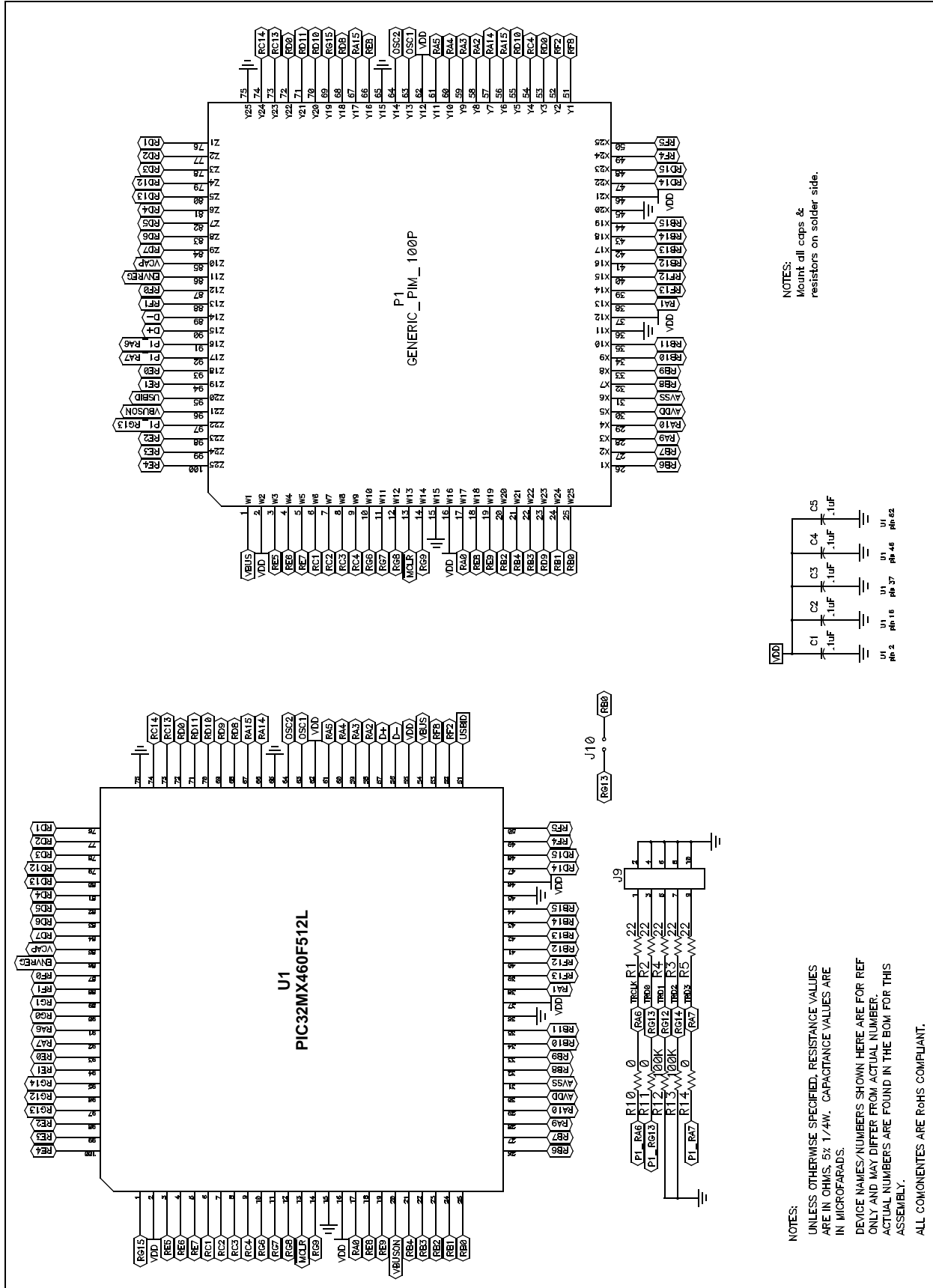
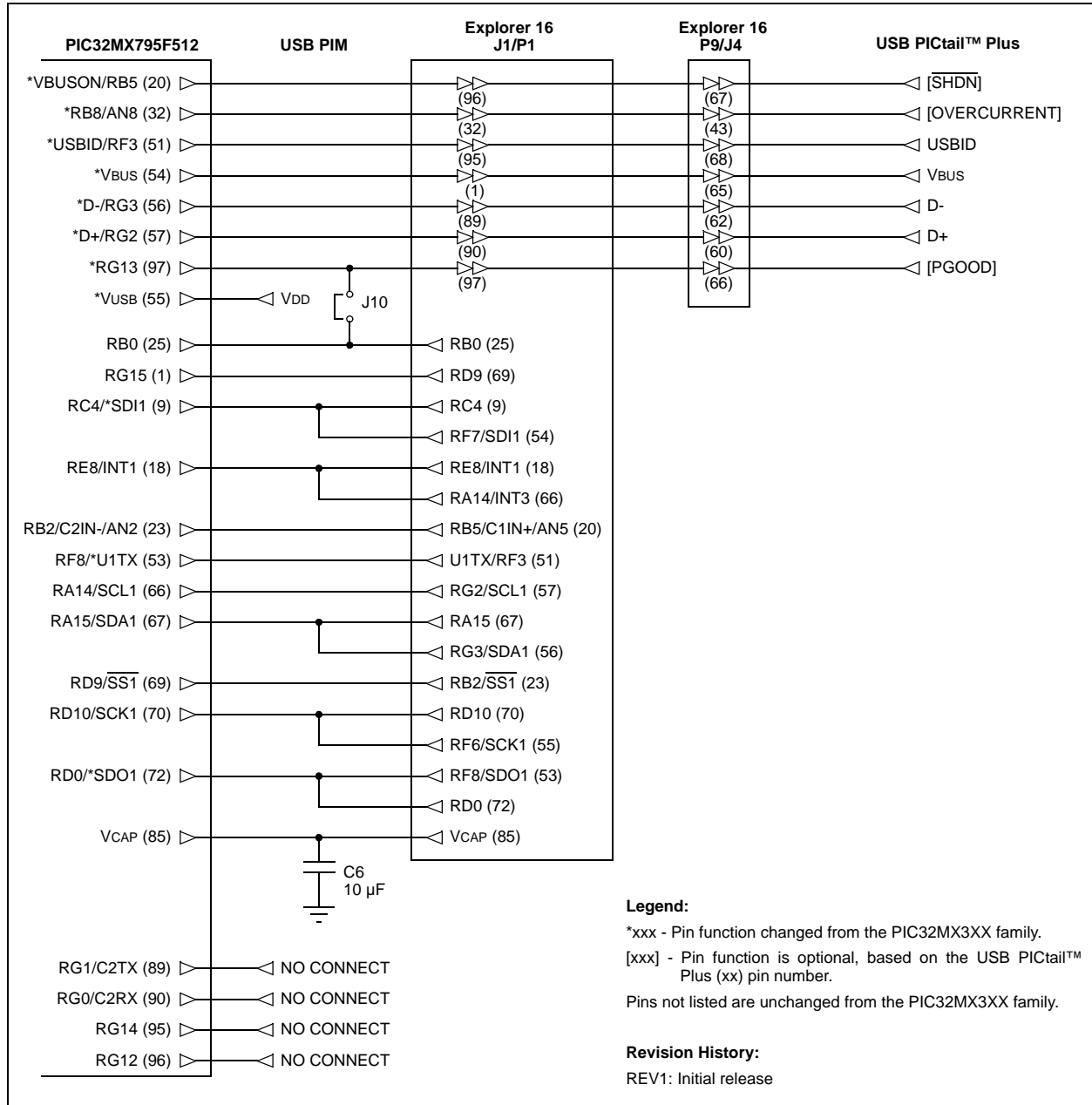
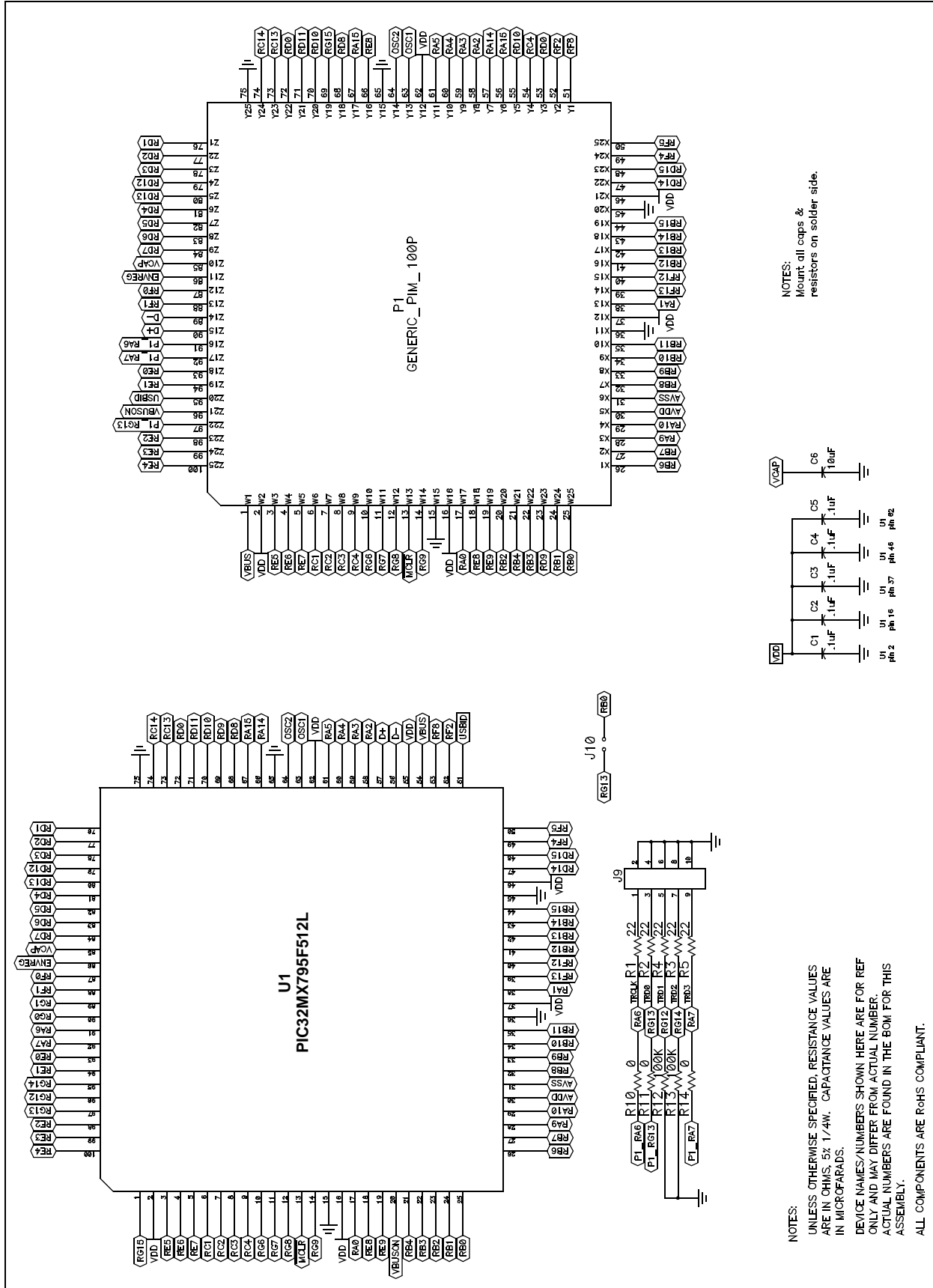


FIGURE 3: USB PIM INTERCONNECT DIAGRAM FOR PIC32MX795F512 DEVICES



PIC32MX

FIGURE 4: PIC32 USB PLUG-IN MODULE SCHEMATIC FOR PIC32MX795F512 DEVICES



REVISION HISTORY

Revision A (October 2008)

This is the original released version of the document.

Revision B (April 2010)

This revision includes the following updates:

- Revised the “**Overview**” section
- Updated Figure 1 and Figure 2
- Updated document to include information on the PIC32MX795F512 device
- Added Figure 3 and Figure 4

PIC32MX

NOTES:

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