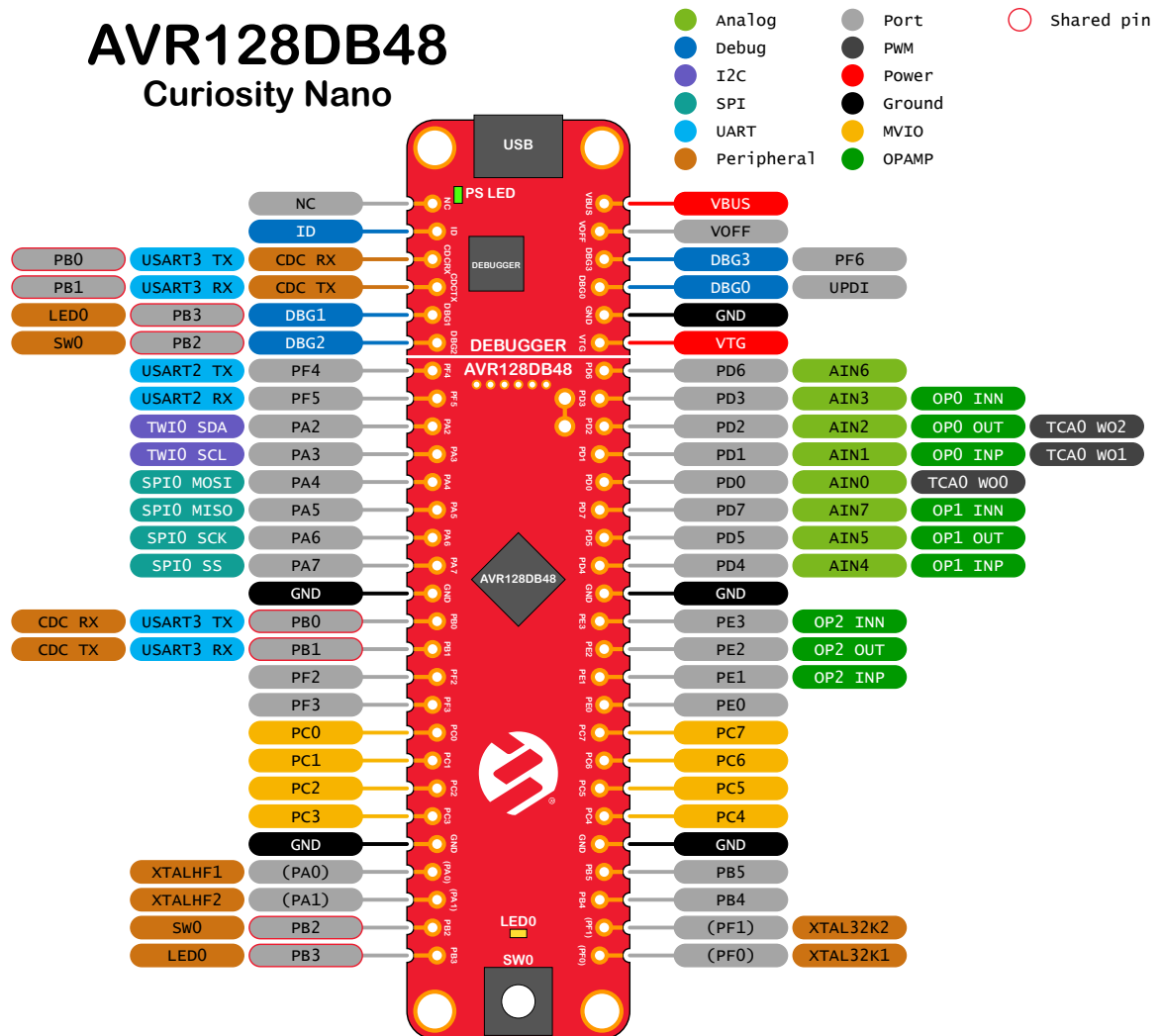# 5. Hardware User Guide

5.1 Connectors

5.1.1 AVR128DB48 Curiosity Nano Pinout

All the AVR128DB48 I/O pins are accessible at the edge connectors on the board. The image below shows the board pinout. For all available functions on each pin, refer to the I/O Multiplexing and Considerations section in the AVR128DB48 data sheet.

Figure 5-1. AVR128DB48 Curiosity Nano Pinout

5.1.2 Using Pin Headers

The edge connector footprint on AVR128DB48 Curiosity Nano has a staggered design where each hole is shifted 8 mil (~0.2 mm) off-center. The hole shift allows the use of regular 100 mil pin headers on the board without soldering. Once the pin headers are firmly in place, they can be used in normal applications like pin sockets and prototyping boards without any issues.