

PA11/PA12 no output on AT-START evaluation board

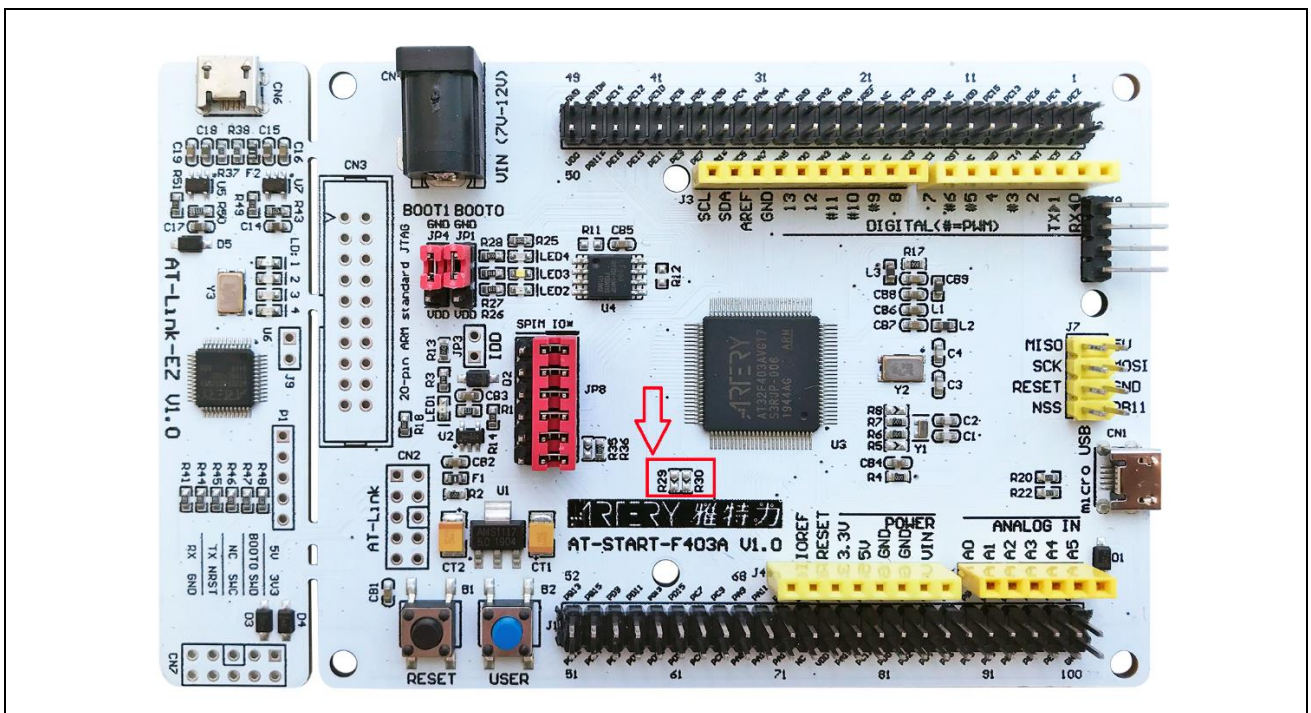
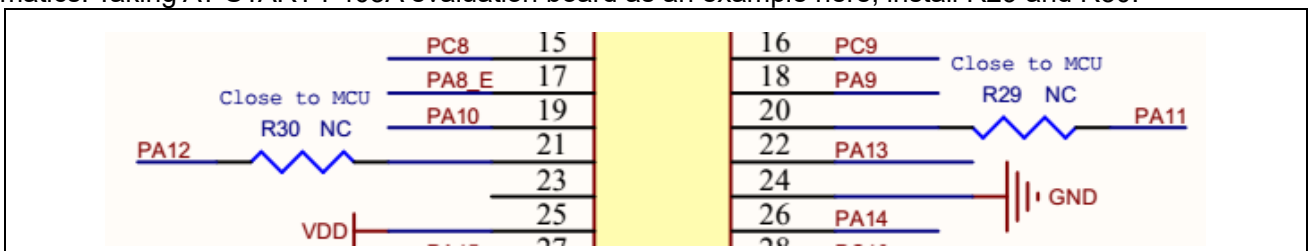
Questions:

Why do PA11 and PA12 have no output on AT-START evaluation board during use?

Answer:

AT-START evaluation board comes with USB functions. To guarantee USB communication reliability, PA11 and PA12 pins are connected to USB by default, rather than IO extension connectors on both sides of the AT-START evaluation board.

If users want to use PA11 and PA12 (located on AT-START IO extension connectors) as CAN or TMR, it is necessary to install 0Ω resistor (not mounted before shipping) according to the corresponding AT-START schematics. Taking AT-START-F403A evaluation board as an example here, install R29 and R30.



Before using AT-START evaluation board, it is important for users to read carefully its schematics and user manual so that they can get a clear picture of the main features of AT-START board in a quickly manner to shorten development cycle.

Schematics and user manual can be available from Artery's official website.

For example, in the user manual *UM_AT_START_F403A*, it provides detailed information about R29 and R30.

R29, R30 (PA11, PA12)	OFF, OFF	When PA11 and PA12 are used as USB, they are not connected to pin_20 and pin_21 of J1.
	ON, ON	When PA11 and PA12 are not used as USB, they can be connected to pin_20 and pin_21 of J1.

Type: Development tool

Applicable products: AT-START evaluation board

Main function: USB

Other function: None

Document revision history

Date	Revision	Changes
2022.3.30	2.0.0	Initial release

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