

Information Note

Topic u-blox SAM-M8Q GNSS module VCC_IO specification update

UBX-19028506

Author Bernd Heidtmann

Date 25 June 2019

Copying, reproduction, modification or disclosure to third parties of this document or any part thereof is only permitted with the express written permission of u-blox. The information contained herein is provided "as is" and u-blox assumes no liability for its use. No warranty, either express or implied, is given, including but not limited, with respect to the accuracy, correctness, reliability and fitness for a particular purpose of the information. This document may be revised by u-blox at any time. For most recent documents, visit www.u-blox.com.
Copyright© u-blox AG.

1 Affected Products

Product Name	Order Code	Type No	Firmware	Remarks
SAM-M8Q	SAM-M8Q-0	SAM-M8Q-0-10	ROM3.01	

2 Type of Change

- Hardware modification
- Firmware update
- Documentation update
- Others

3 Description of Change

The affected product features a separate supply voltage (VCC_IO) for the input/output ports. With this documentation update we provide a clarification of the maximum value for VCC_IO with respect to VCC supply as outlined below.

Actual datasheet figures:

Parameter	Symbol	Min	Typical	Max	Units	Condition
Power supply voltage	VCC, VCC_IO	2.7	3.0	3.6	V	

Updated datasheet figures:

Parameter	Symbol	Min	Typical	Max	Units	Condition
Power supply voltage	VCC	2.7	3.0	3.6	V	
IO supply voltage	VCC_IO	2.7	3.0	VCC + 0.3	V	VCC < 3.3V
		2.7	3.0	3.6	V	VCC > 3.3V

4 Schedule

The updated datasheet is available already from the u-blox website [2].

5 Customer Impact and Recommended Action

In most designs VCC_IO is connected to VCC and, hence, this documentation update has no impact. In all other cases, customers shall verify their design, if VCC_IO is max 0.3V higher than VCC.

6 Reference Documents

- [1] u-blox 8 / u-blox M8 Receiver Description ([UBX-13003221](#))
- [2] SAM-M8Q Data Sheet ([UBX-16012619](#))
- [3] SAM-M8Q Hardware Integration Manual ([UBX-16018358](#))