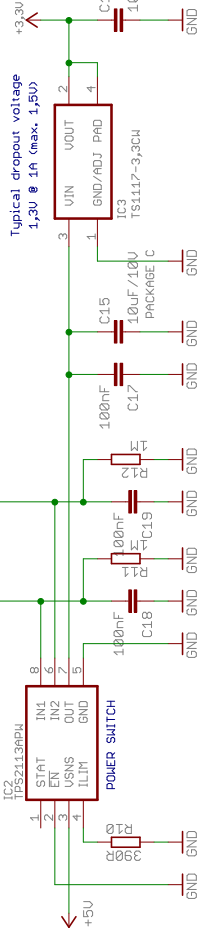


DRAFT VERSION

PA12 can be used to check if a cable is plugged into the target USB.  
 $U_{max} = 3.20V$   
 $U_{min} = 2.69V$

**Note:**  
 The current through this switch is limited with the 390 Ohms resistor to  $I_L = 250/R_{limit} = 641 \text{ mA}$ . This is a typical value and according to the datasheet we can expect a minimum of 510mA and a maximum of 800mA. The switch (TPS2113A) has an on-resistance of typically 84mOhm and maximal 110mOhm.

POWER SWITCH		MODULE POWERED VIA	
EXT 5V PRESENT	YES	UBUS PRESENT	X
EXT 5V PRESENT	NO	UBUS PRESENT	YES



Typical dropout voltage  $1.3V @ 1A$  (max.  $1.5V$ )

ROHS COMPLIANCE		REVISION	1
SHEET TITLE		DATE	08.04.2016
PROJECT TITLE		CHECKED	HR
BOARD NO.		DATE	16.03.2016
DRAWN		DR	
ROHS COMPLIANCE		RELEASE DATE	08.04.2016
SHEET SIZE		SHEET	1/1
A3			

RODENHAUSEN ELECTRONIC  
 MIKROKONTROLLERSYSTEME  
 BEGRIFFENSTRASSE 6  
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