

# STMod+ Fanout

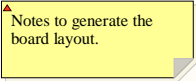
MB1280

## Table of contents

- Sheet 1: Project overview (this page)
- Sheet 2: MB1280

## Legend

- General comment such as function title, configuration, ...
- Text to be added to silkscreen.
- Warning text.



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MB1280.SchDoc



Title: <b>Project overview</b>		
Project: <b>STMod+ Fanout</b>		
Variant: 3V3		
Revision: C-01	Reference: MB1280	
Size: A4	Date: 18-SEP-2019	Sheet: 1 of 1



Pin connection diagram for the STM32F407VGT6 microcontroller. The diagram shows a 20-pin header labeled "Header 10x2 STM0+" connected to a 20-pin connector labeled "CN1". The pins are numbered 1 to 20. The connections are as follows:

Header Pin	Header Label	Connector Pin	Connector Label
1	STM0D#1	1	STM0D#1
2	STM0D#2	2	STM0D#2
3	STM0D#3	3	STM0D#3
4	STM0D#4	4	STM0D#4
5	STM0D#5	5	STM0D#5
6	STM0D#6	6	STM0D#6
7	STM0D#7	7	STM0D#7
8	STM0D#8	8	STM0D#8
9	STM0D#9	9	STM0D#9
10	STM0D#10	10	STM0D#10
11	STM0D#11	11	STM0D#11
12	STM0D#12	12	STM0D#12
13	STM0D#13	13	STM0D#13
14	STM0D#14	14	STM0D#14
15	STM0D#15	15	STM0D#15
16	STM0D#16	16	STM0D#16
17	STM0D#17	17	STM0D#17
18	STM0D#18	18	STM0D#18
19	STM0D#19	19	STM0D#19
20	STM0D#20	20	STM0D#20

The STM0D#15 pin is connected to a 5V supply. The STM0D#16 pin is connected to ground.

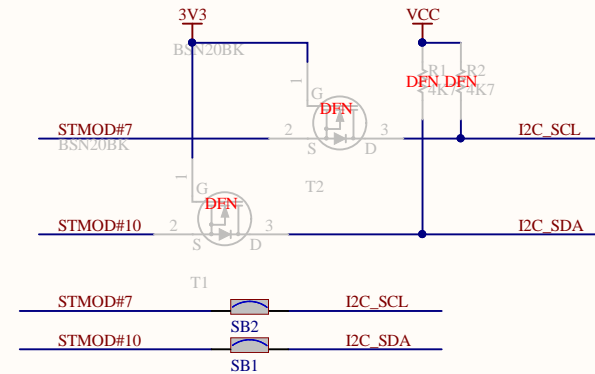


Diagram illustrating the TSW-110-14-G-S connector, showing two views (Top and Bottom) and a 5V power source connection.

**Top View (Left):**

- Pin 1: STMOD#13
- Pin 2: STMOD#12
- Pin 3: STMOD#1
- Pin 4: STMOD#4
- Pin 5: STMOD#9
- Pin 6: STMOD#8
- Pin 7: DFN

**Bottom View (Right):**

- Pin 11: STMOD#17
- Pin 12: STMOD#18
- Pin 13: STMOD#14
- Pin 14: STMOD#11
- Pin 15: STMOD#3
- Pin 16: STMOD#2
- Pin 17: STMOD#7
- Pin 18: STMOD#10
- Pin 19: DFN
- Pin 20: STMOD#20

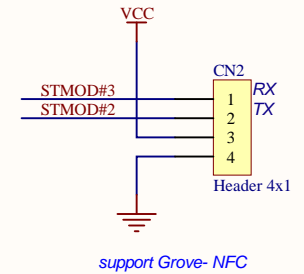
5V Power Source Connection: A 5V source is connected to Pin 11 (STMOD#17) and Pin 19 (STMOD#10).

Connector Label: TSW-110-14-G-S

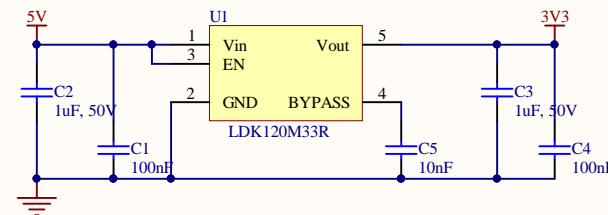
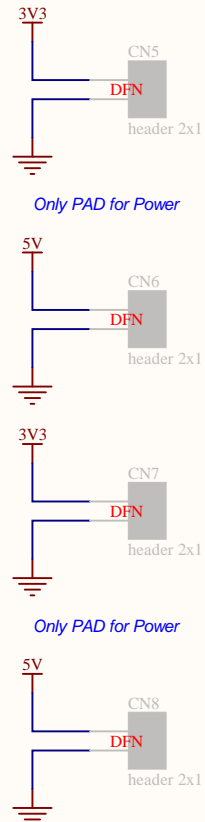
Note: Only PAD for bread board connection

Diagram illustrating the pin connections for the Socket 4x2:

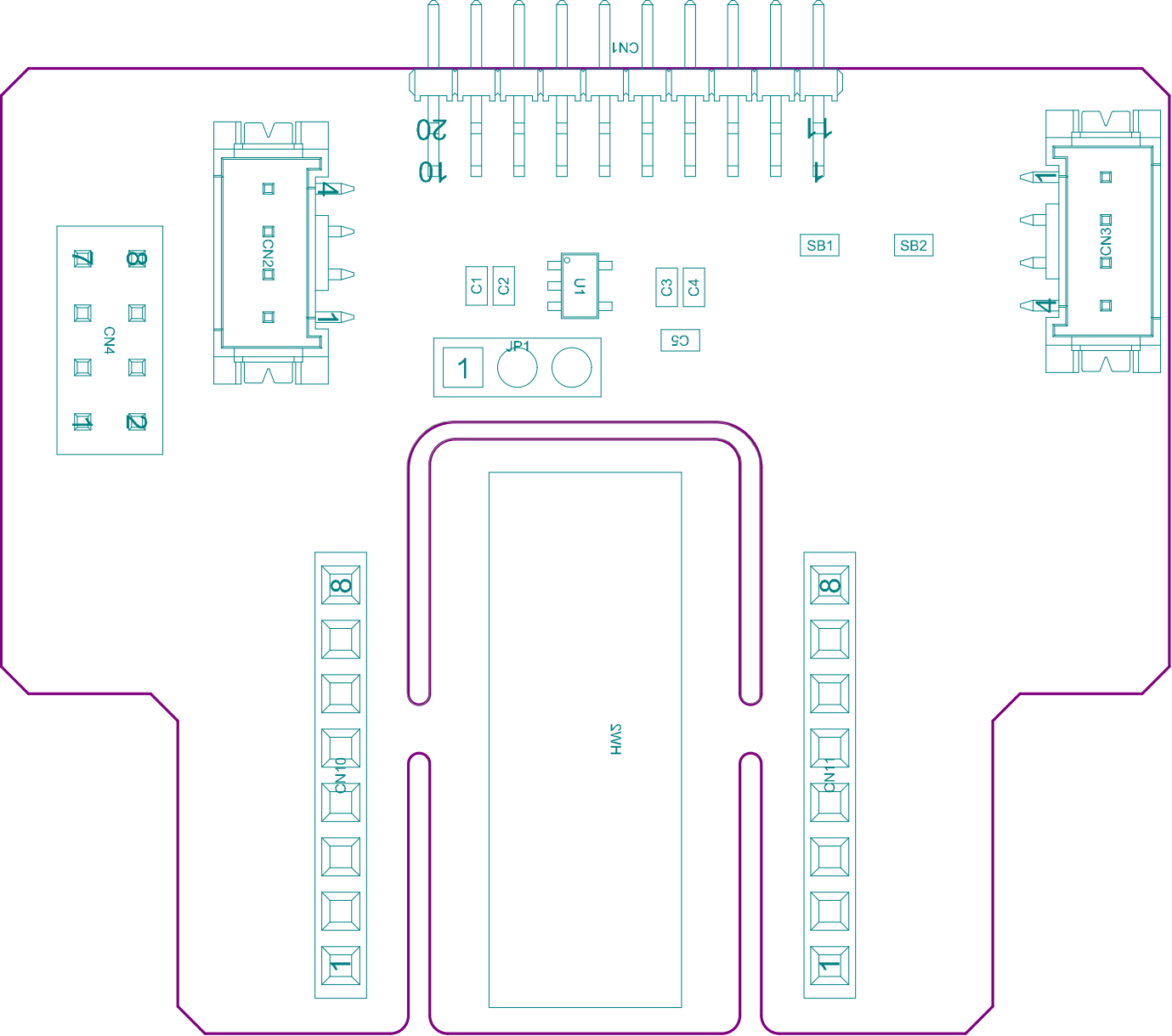
Header Pin	Socket Pin	Signal	Target
1	1	GND	GND
2	2	STMOD#2	TXD
3	3	STMOD#14	GPIO2
4	4	STMOD#13	CH_PD
5	5	STMOD#11	GPIO0
6	6	STMOD#12	RST
7	7	3V3	VCC
8	8	VCC	VCC

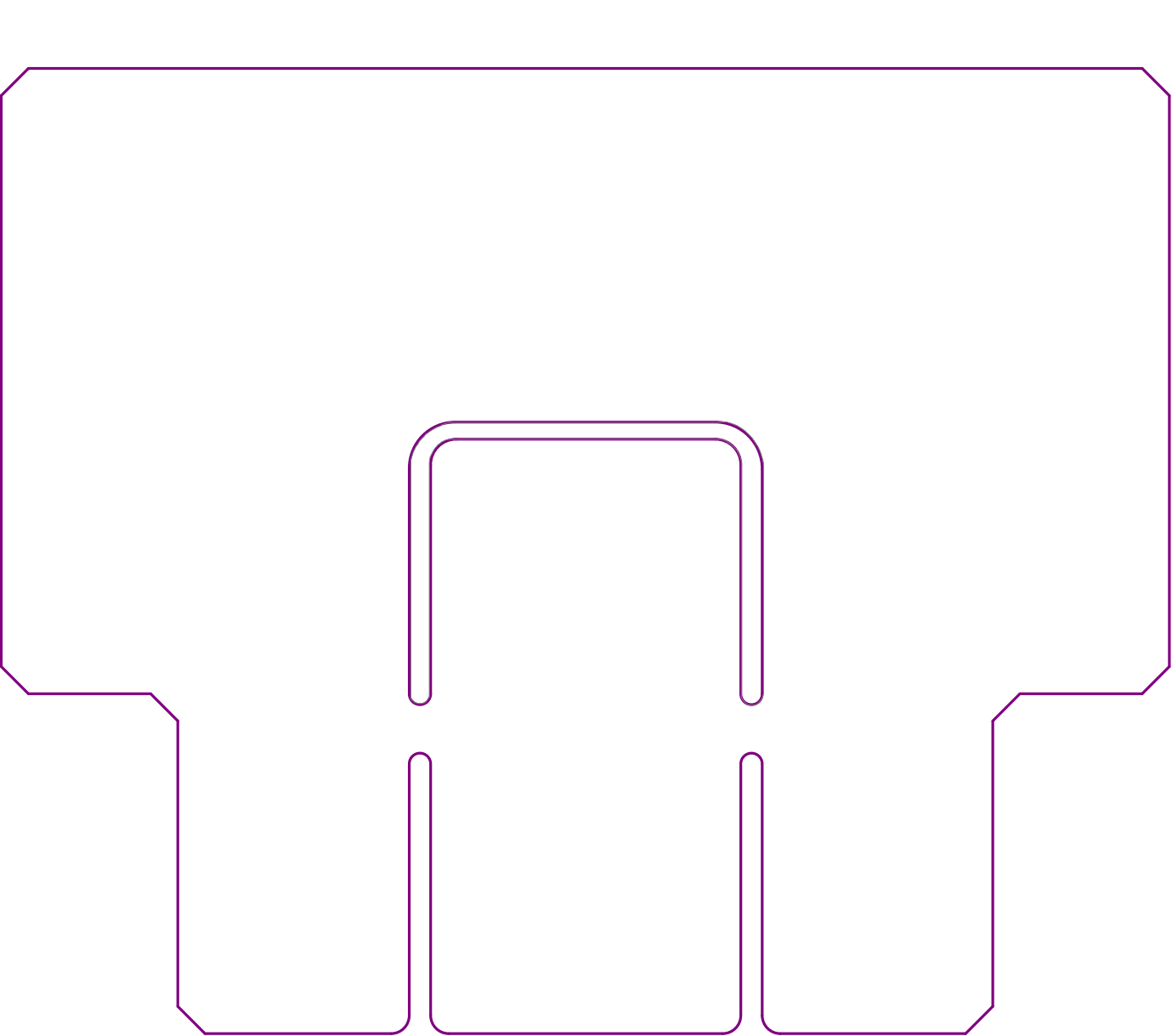


Pinout diagram for the ATmega328P microcontroller. The diagram shows two 8-pin headers: CN11 on the left and CN10 on the right. CN11 pins 1-6 are connected to STMOD#13, STMOD#12, STMOD#1, STMOD#4, STMOD#9, and STMOD#8 respectively. Pin 7 is connected to a 3V3 supply, and pin 8 is GND. CN10 pins 1-6 are connected to AN, RST, CS, SCK, MISO, and MOSI respectively. Pin 7 is connected to a +5V supply, and pin 8 is GND. The diagram also shows the corresponding functions for the other pins: PWM, INT, RX, TX, SDA, and GND. The headers are labeled 'Socket 8x1'.

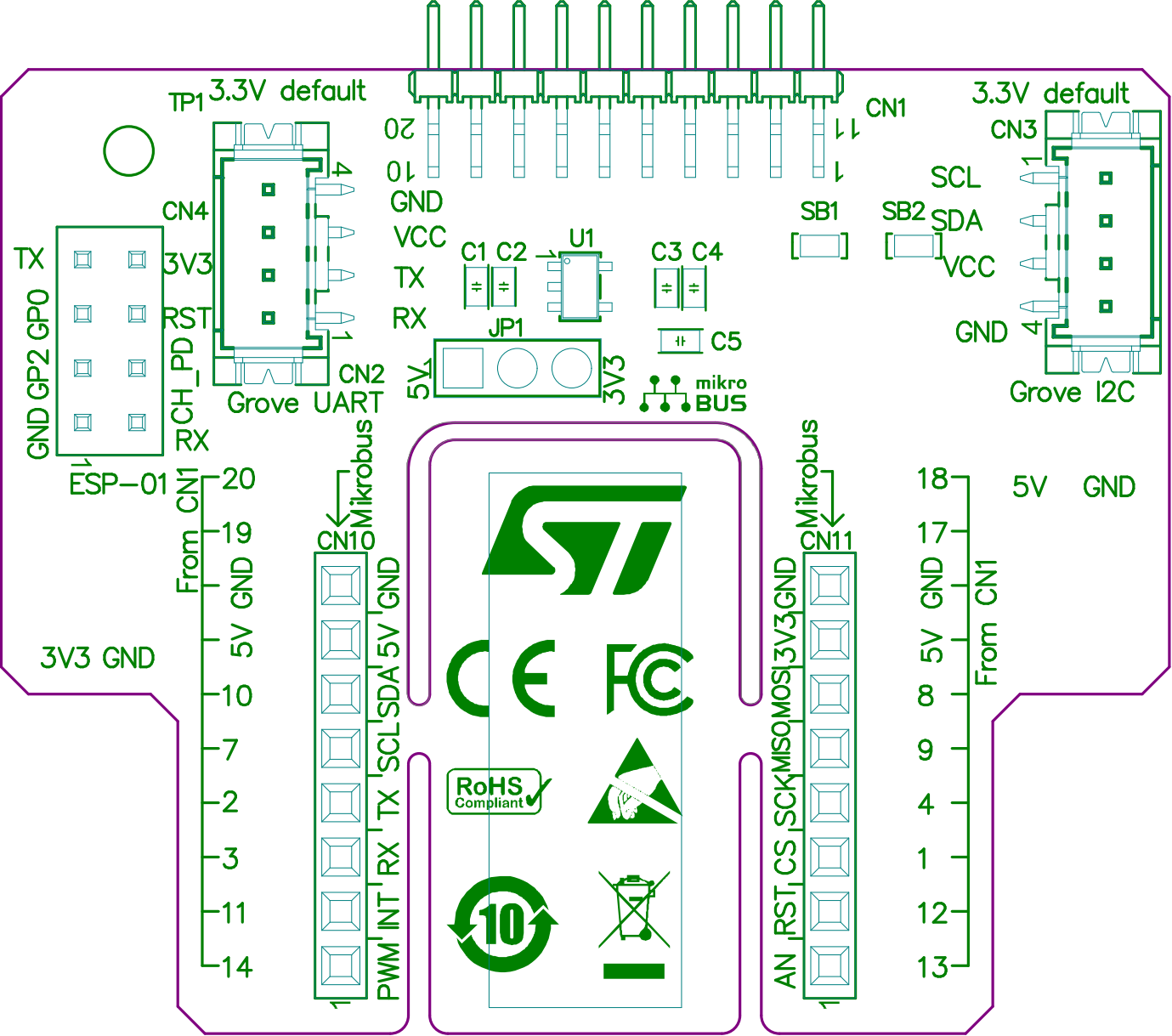


The diagram shows two yellow rectangular boxes representing PCBs. The left box is labeled 'HW1' in blue text above it and 'MBxxxxx' in blue text below it. Inside the box, the text 'PCB' is written in black. The right box is labeled 'HW2' in blue text above it and 'BOARD REF' in blue text below it. Inside the box, the text 'MBxxxxx-yy zzzwwxxxxx' is written in black.









Fanout board  
MB1280C

GND  
5V  
MOSI  
MISO  
SCK  
CS  
RST  
AN

3V3

HW2

20  
10

11  
1

GND  
5V  
SDA  
SCL  
TX  
RX  
INT  
PWM