

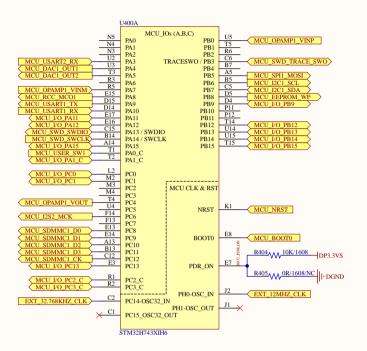
3 STM32H743XIH6 SOM B'd (Rev.A) [3] Power Input Power & eFuse P3.3VS (Reserved) **Reserved Part** U300 DP5VS D300 OUT 3.3V / 1A B5819W DP3.3VS 10 DP5VS R300 100K/1005 OUT P5VS_IN R307 R301 C300 22uF/25V/2012 VOUT 0R/2012/NC 10K/1005 C303 100nF/50V/1608 TAP (VOUT) ILIM AMS1117-3.3 11 **GND** LS1205EVD33 = DGND 트 DGND ① VCP = High \rightarrow if(Vout == 5V), then Vclamp = 5.7V PWR_EN ② I Lim = 10.5 / 4.7 = 2.2AC **P3.3VS** 3.3V / 500mA DP5VS DP3.3VS U302 R303 R304 VOUT 0R/1608 EN VOUT GND NC STM32H743XIH6 SOM Bd.PrjPcb * MIC5528-3.3YMT-TR 03_Power.SchDoc LED300 D D Sheet #3 of 7 Author * | DGND 680R/1608 GREEN/2012 2024-04-29

This document is copyright of ArkX and shall not be revealed, produced, copied, in whole or in part,

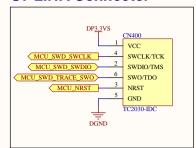
nor used for any purpose other than submitted.

STM32H743XIH6 SOM B'd (Rev.A)

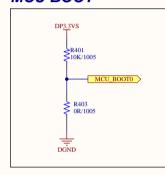
[4] MCU - Part1



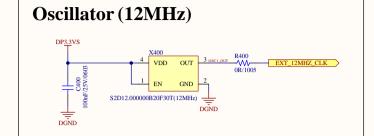
ST-LINK Connector



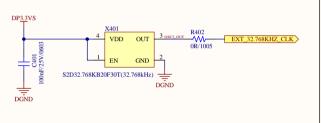
MCU BOOT



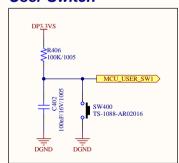
MCU Clock Source



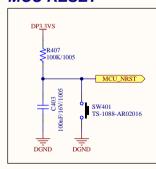
Oscillator (32.768kHz)



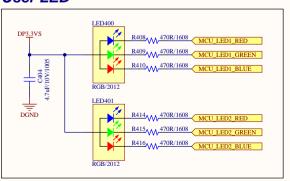
User Switch



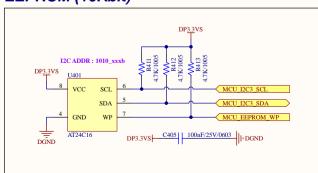
MCU RESET



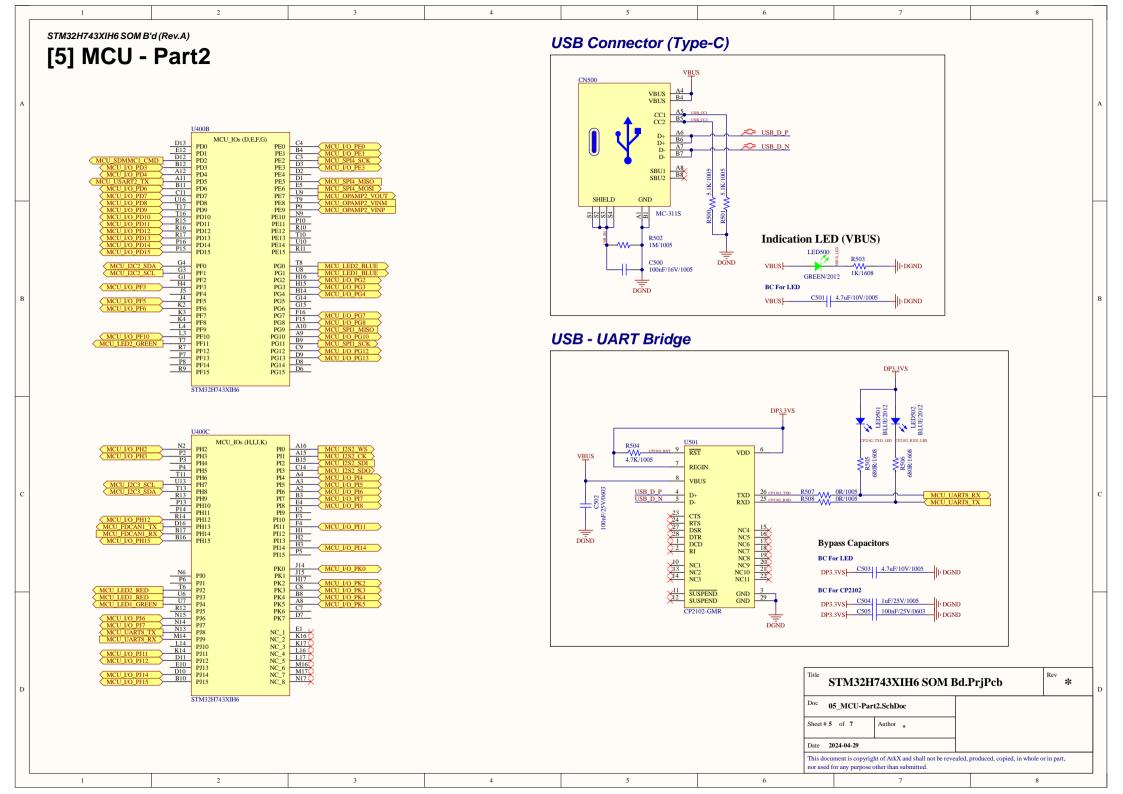
User LED

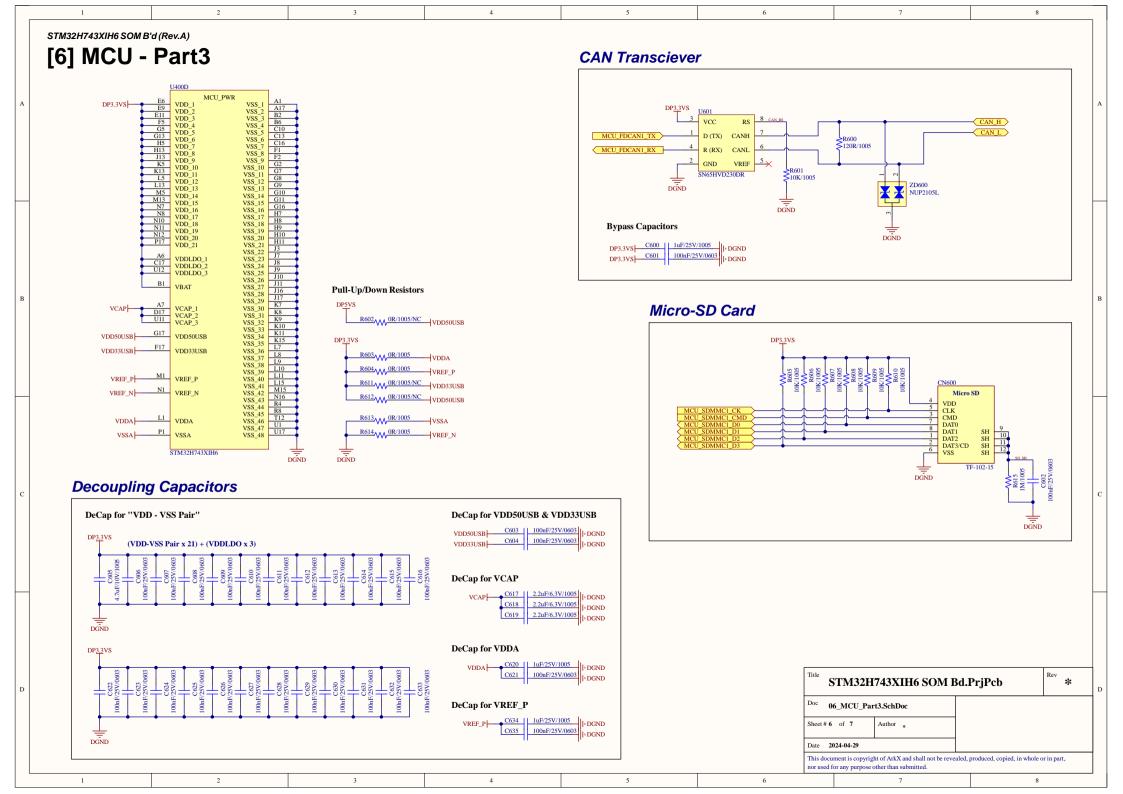


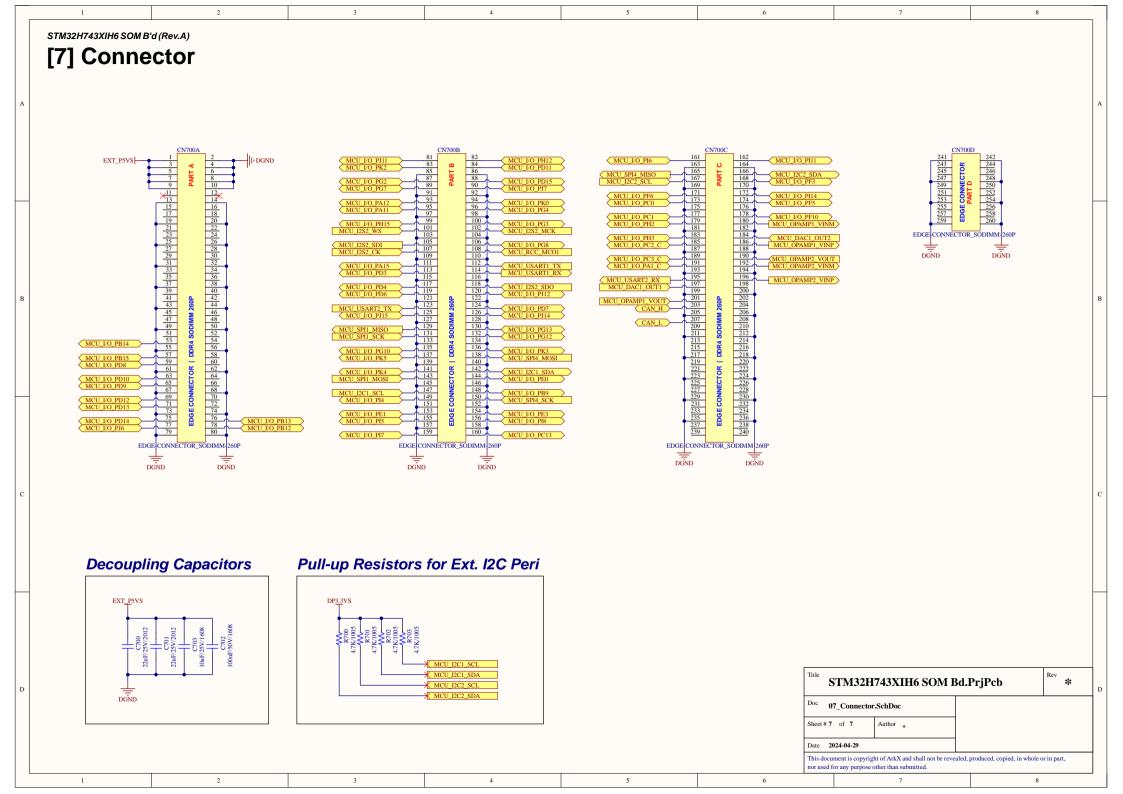
EEPROM (16Kbit)

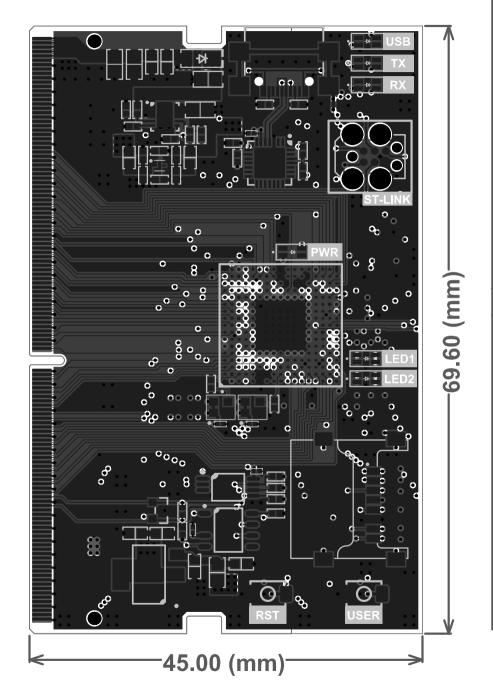












Layer Information

GND

GND

GND

L5

Top (Signal / GND)

Power (5V / 3.3V)

Signal / GND

Signal / GND

Bottom (Signal / GND)

# PCB Specification (JLCPCB)		
No	Category	Selection
1	Base Material	FR-4
2	Layer #	8 - Layer
3	Dimension	45.00(mm) * 69.60(mm)
4	Thickness	1.2T
5	Color	Black
6	Material Type	FR-4 TG155
7	Surface Finish	ENIG
8	Gold Thickness	2 U"
9	Outer Copper Weight	1 oz
10	Inner Copper Weight	0.5 oz
11	Impedance Control	No
12	Layer Stack-up	JLC08121H-3313 (Default Stack-up)
13	Via Covering	Epoxy Filled & Capped
14	Min. Via Hole Size / Diameter	Hole: 0.2mm / Diameter: 0.35mm
15	Board Outline Tolerance	±0.2mm (Regular)
16	Confirm Production File	No
17	Remove Order Number	Yes
18	Flying Probe Test	Fully Test
19	Gold Fingers	Yes
20	30° Finger Chamfered	No
21	Castellated Holes	No
22	Edge Plating	No