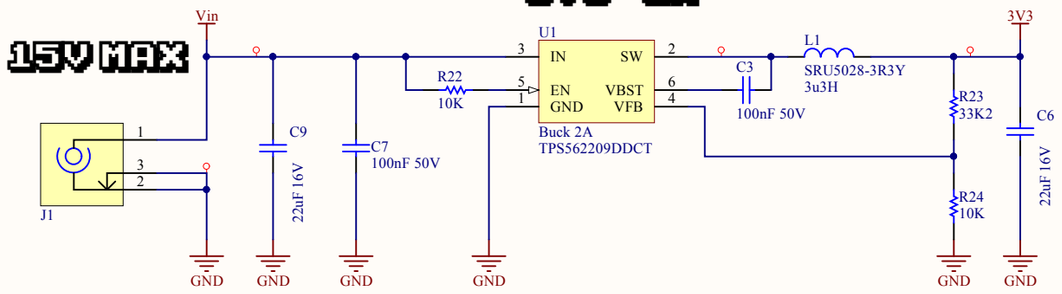
AREA 3001

RGBW LED BOARD

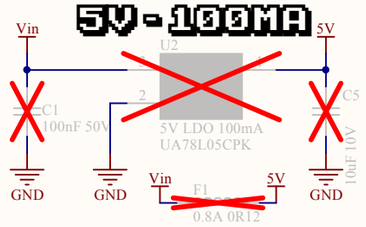
POWER

3V3 - 1A

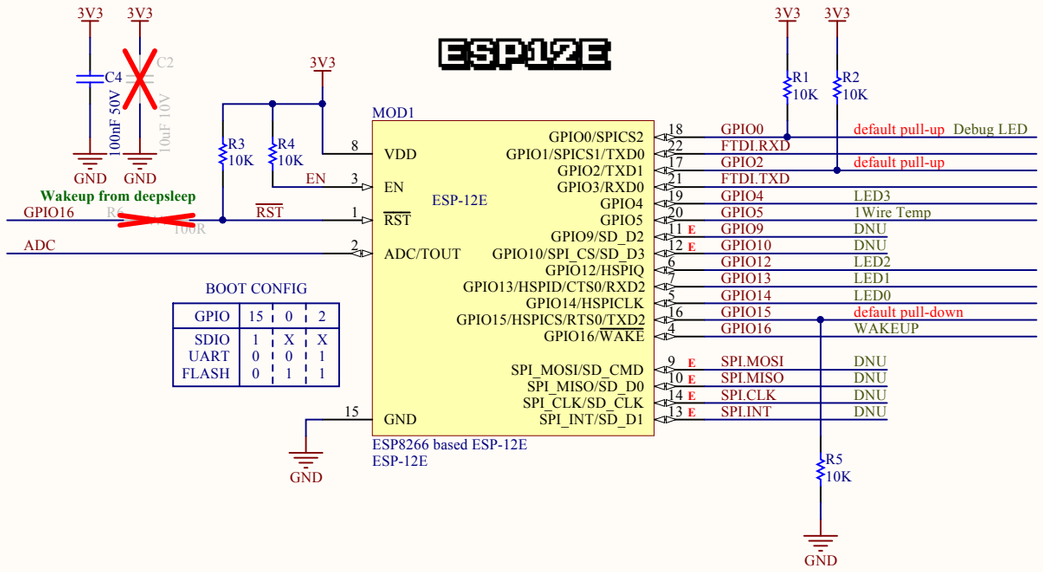
15V MAX



5V - 100MA



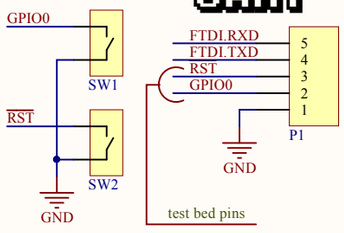
ESP12E



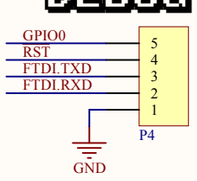
BOOT CONFIG

GPIO	15	0	2
SDIO	1	X	X
UART	0	0	1
FLASH	0	1	1

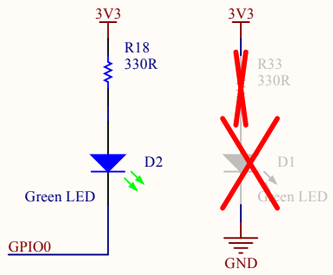
UART



DEBUG

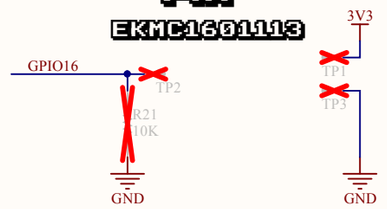


DEBUG AND POWER LED

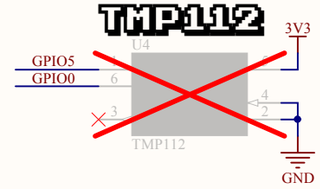


PIR

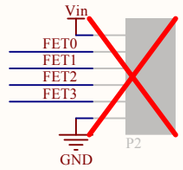
EKMC1601113



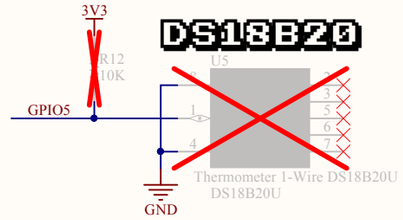
TMP112



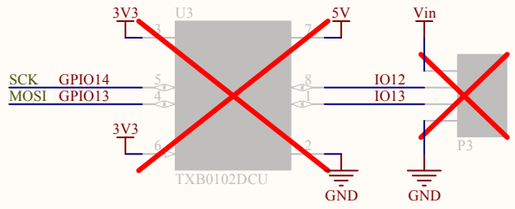
EXPANSION



DS18B20



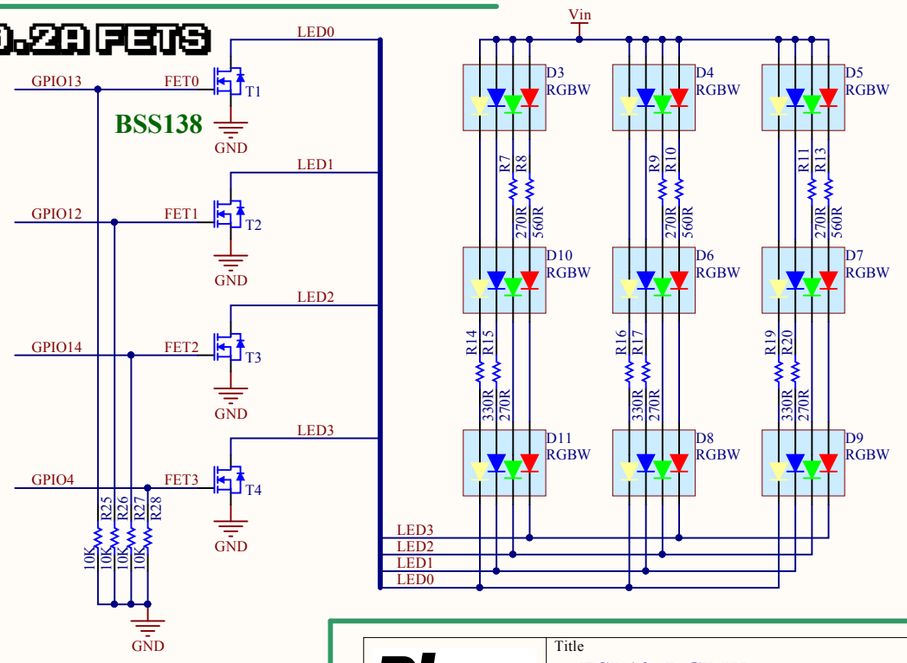
5V LEVEL SHIFTER



VfR = 2.2V
VF G = B = 3.2V
VF W = 3.0V
(12V - 3 x Vf) / 0.010A = R
(12V - 3 x 2.2) / 0.010A = 540R -> 560R
(12V - 3 x 3.2) / 0.010A = 240R -> 270R
(12V - 3 x 3.0) / 0.010A = 300R -> 330R

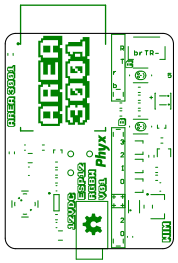
0.2A FETS

BSS138

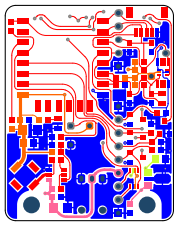


VARIANT NAME - INTERNAL

Phyx	Title: ESP12_RGBW	
	Date: 19/04/2016	Size: A3
Revision: 01	Drawn By: Wim Van Gool	Sheet 1 of 1



Phyx	Document: ESP12_RGBW
	Layer Name: Top Overlay
	Date: 28/04/2016 | Rev: 01
Desginer: WimVG	Document: ESP12_RGBW_01.PcbDoc



Phyx	Document: ESP12_RGBW
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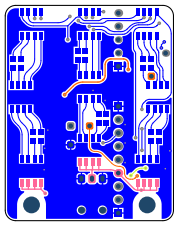
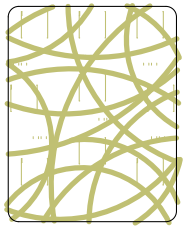
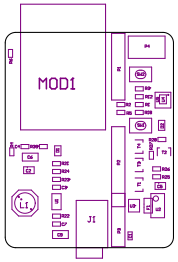
	Date: 28/04/2016 | Rev: 01
Desginer: WimVG	Document: ESP12_RGBW_01.PcbDoc



Phyx	Document: ESP12_RGBW
	Layer Name: Bottom Layer
	Date: 28/04/2016 | Rev: 01
Desginer: WimVG	Document: ESP12_RGBW_01.PcbDoc

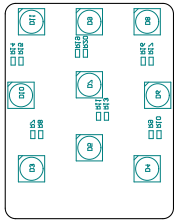


Phyx	Document: ESP12_RGBW
	Layer Name: Bottom Overlay
	Date: 28/04/2016 | Rev: 01
Desginer: WimVG	Document: ESP12_RGBW_01.PcbDoc



Phyx

Document	ESP12_RGBW
Layer Name	Assembly Top
Date	28/04/2016
Rev	01
Desginer	WimVG
Document	ESP12_RGBW_01.PcbDoc



Phyx	Document: ESP12_RGBW
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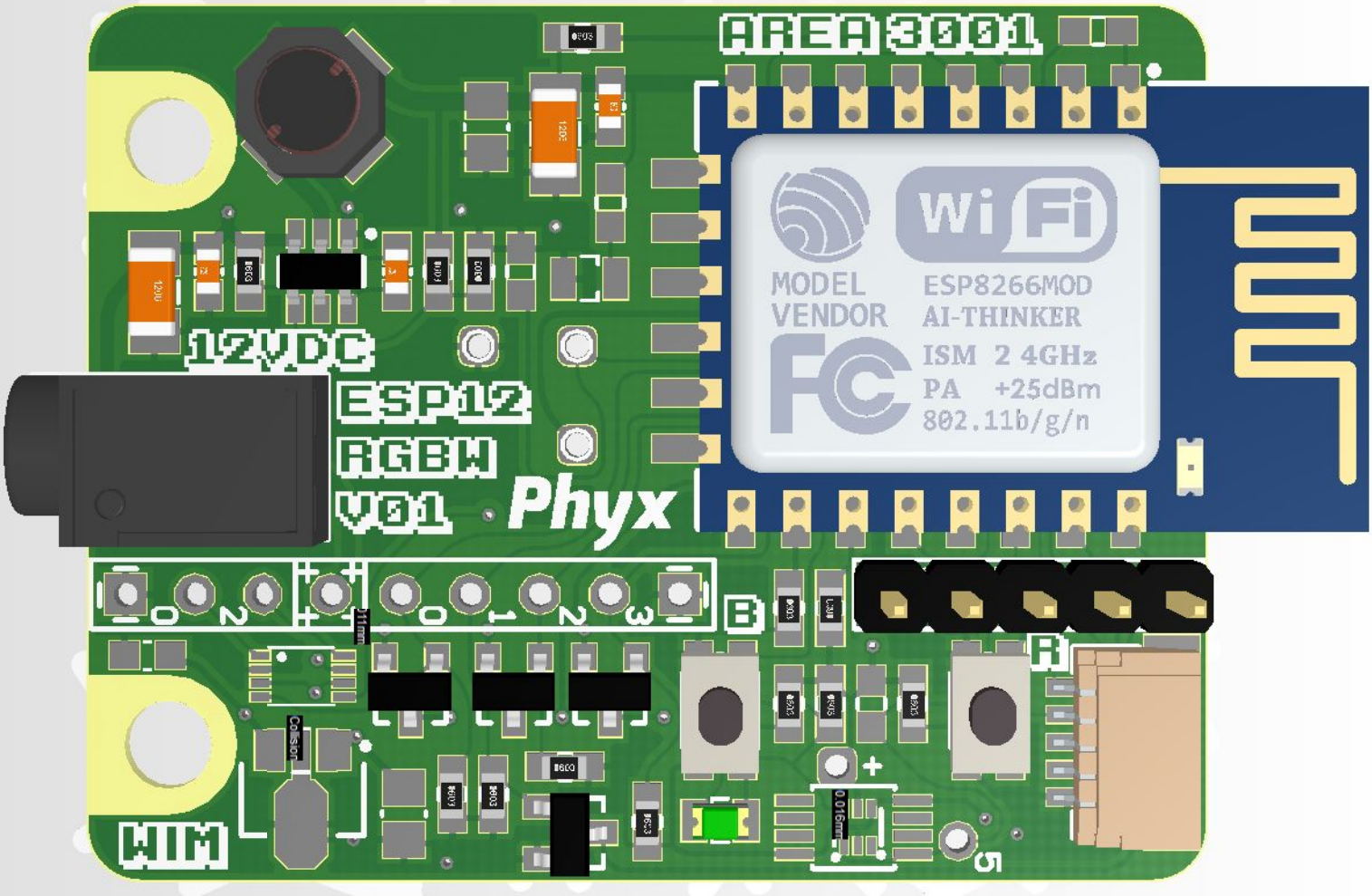
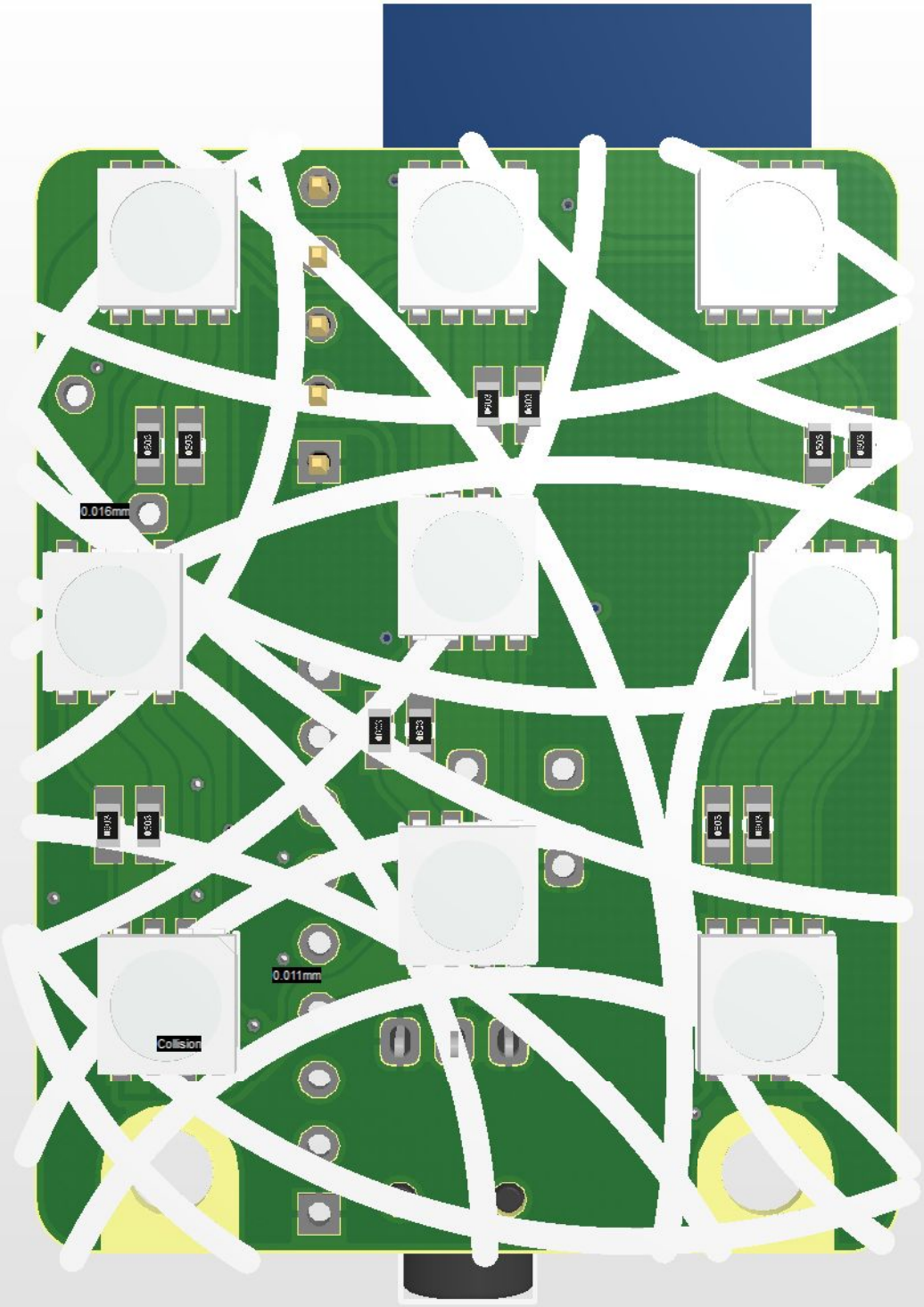

AREA3001
12VDC
ESP12
RGBW
V01
Phyx
WiFi
MODEL ESP8266MOD
VENDOR AI-THINKER
ISM 2 4GHz
PA +25dBm
802.11b/g/n
WIM


0.016mm
0.011mm
Collision