

(*) Deshabilita el módulo de AUDIO conectado por I2S
(**) Deshabilita el USER BUTTON

TÍTULO: **Baseboard STM32F4-DISCOVERY**

Puertos del uC

AUTORES: G. Ferrari, L. Davico, N. Espinosa

REV: 3.0

ESCUELA CRISTIANA EVANGÉLICA ARGENTINA

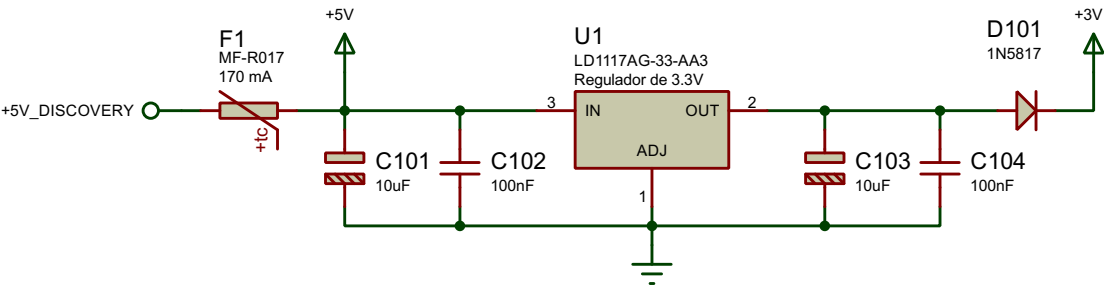
FECHA:

1/12/2017

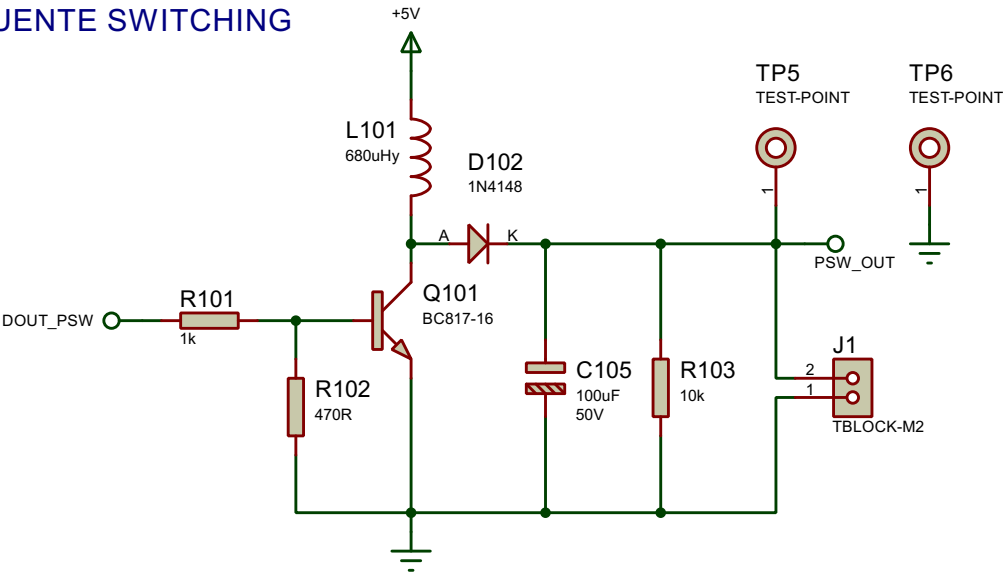
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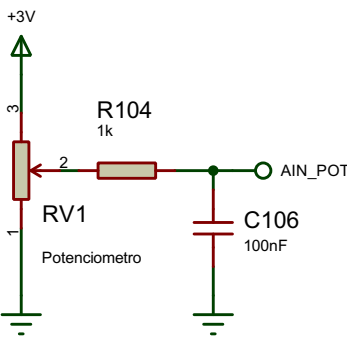
ALIMENTACIÓN



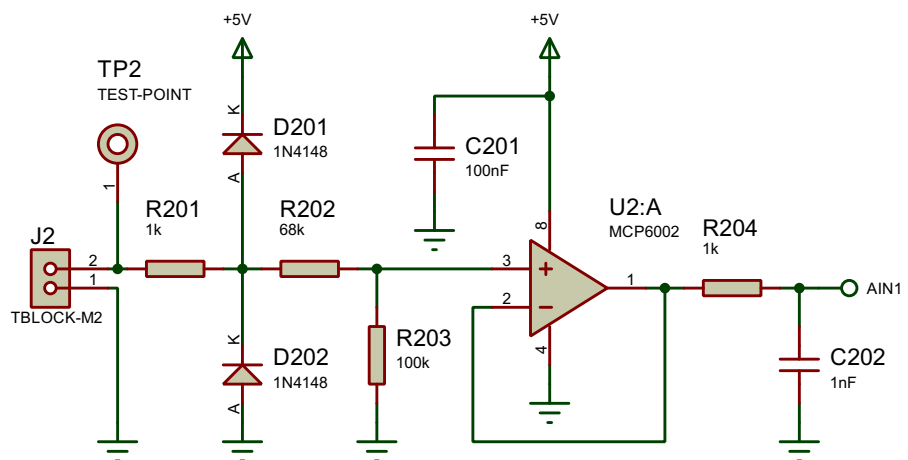
FUENTE SWITCHING



POTENCIÓMETRO

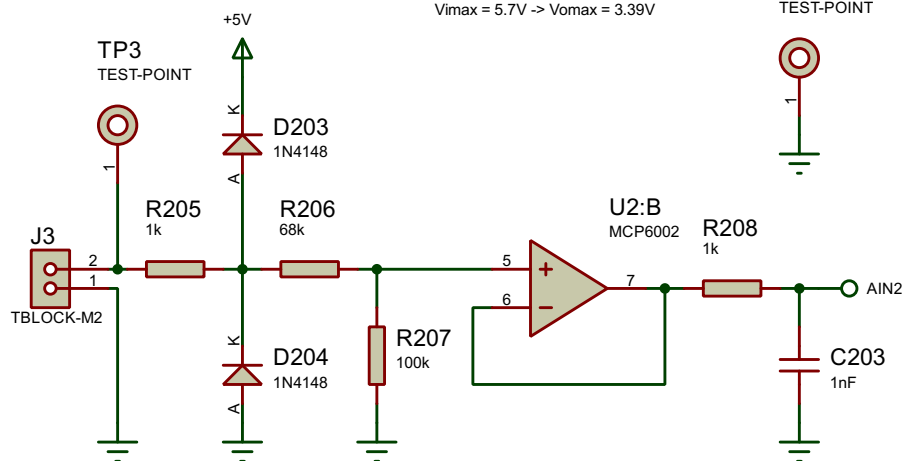


ENTRADAS ANALÓGICAS (0 a 5V)

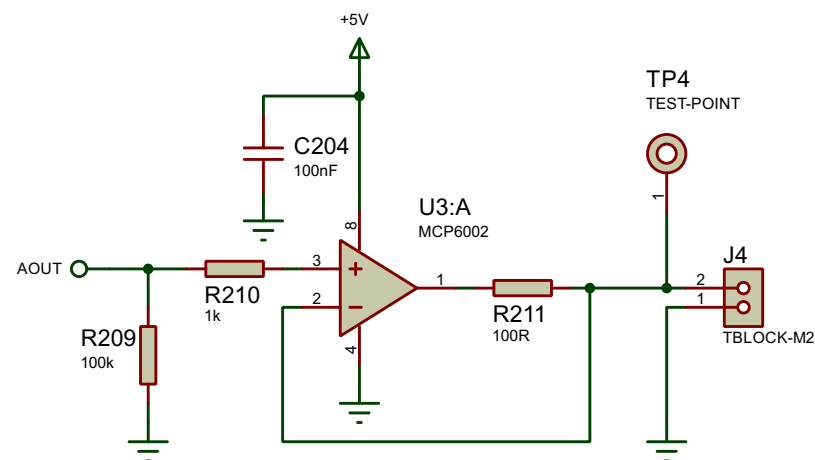


Ganancia de la etapa: 0.59
 $V_{imax} = 5.7V \rightarrow V_{omax} = 3.39V$

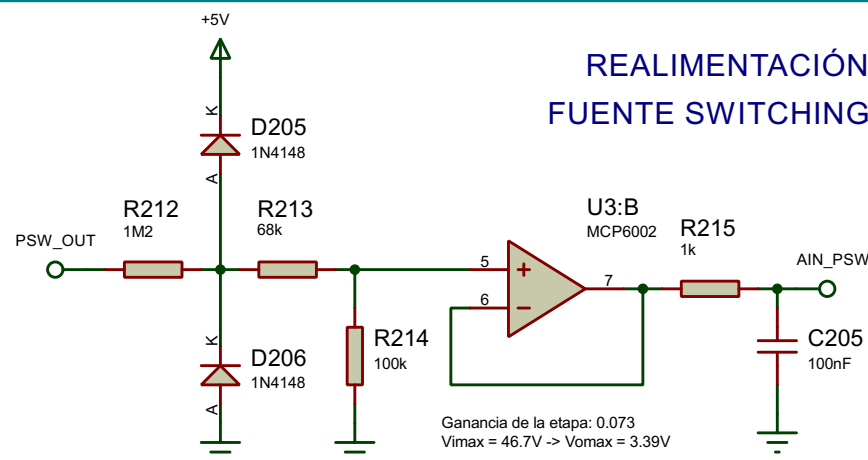
TP1
 TEST-POINT



SALIDA ANALÓGICA (0 a 3V)



REALIMENTACIÓN FUENTE SWITCHING



Ganancia de la etapa: 0.073
 $V_{imax} = 46.7V \rightarrow V_{omax} = 3.39V$

TÍTULO: **Baseboard STM32F4-DISCOVERY**

Acondicionamiento de Señales

AUTORES: G. Ferrari, L. Davico, N. Espinosa

REV: 3.0

ESCUELA CRISTIANA EVANGÉLICA ARGENTINA

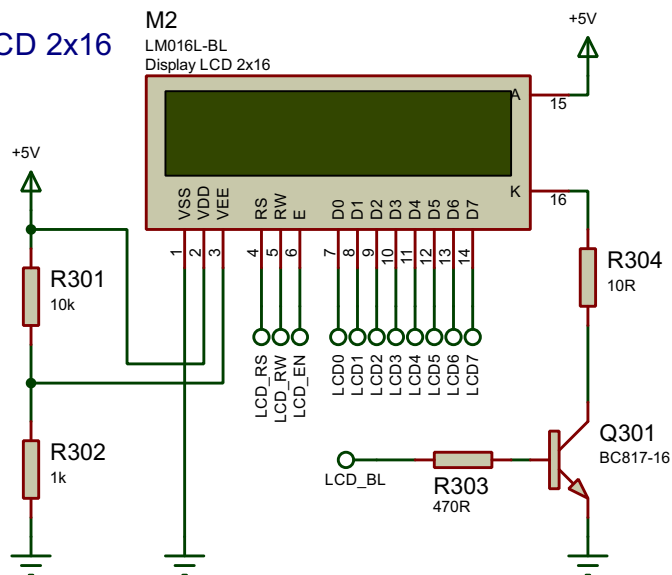
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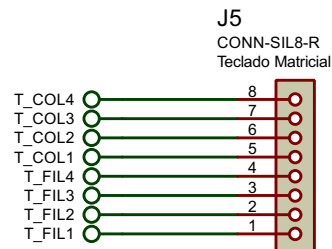
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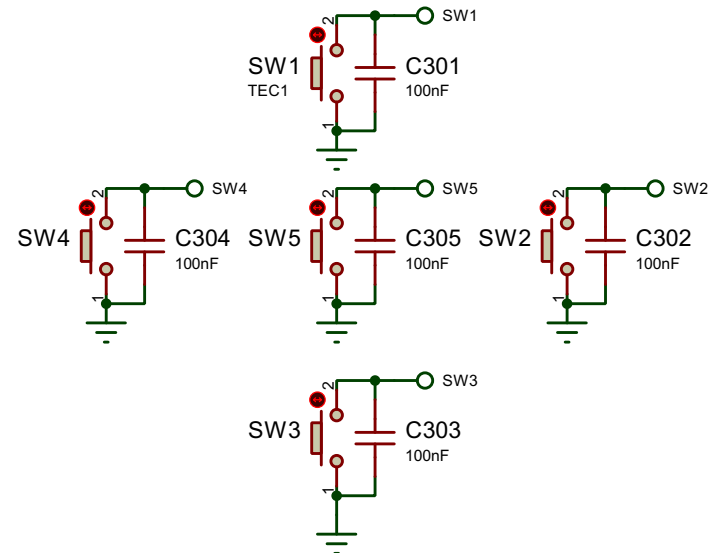
LCD 2x16



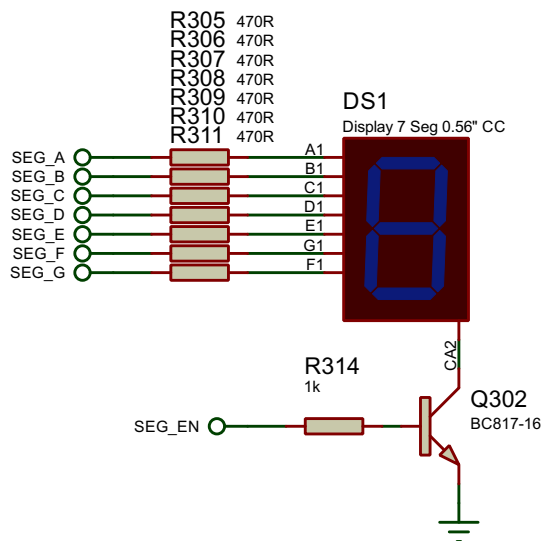
TECLADO MATRICIAL



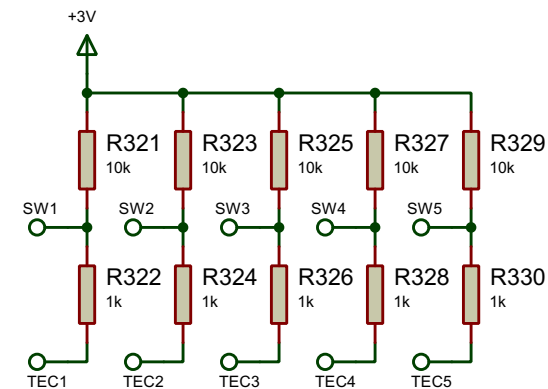
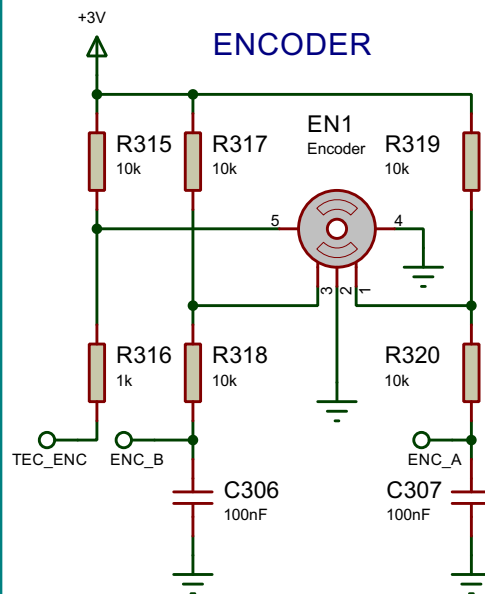
PULSADORES



DISPLAY 7 SEGMENTOS



ENCODER



TÍTULO: **Baseboard STM32F4-DISCOVERY**

LCD - Teclado - Encoder - Display 7 Segmentos

AUTORES: G. Ferrari, L. Davico, N. Espinosa

REV: 3.0

ESCUELA CRISTIANA EVANGÉLICA ARGENTINA

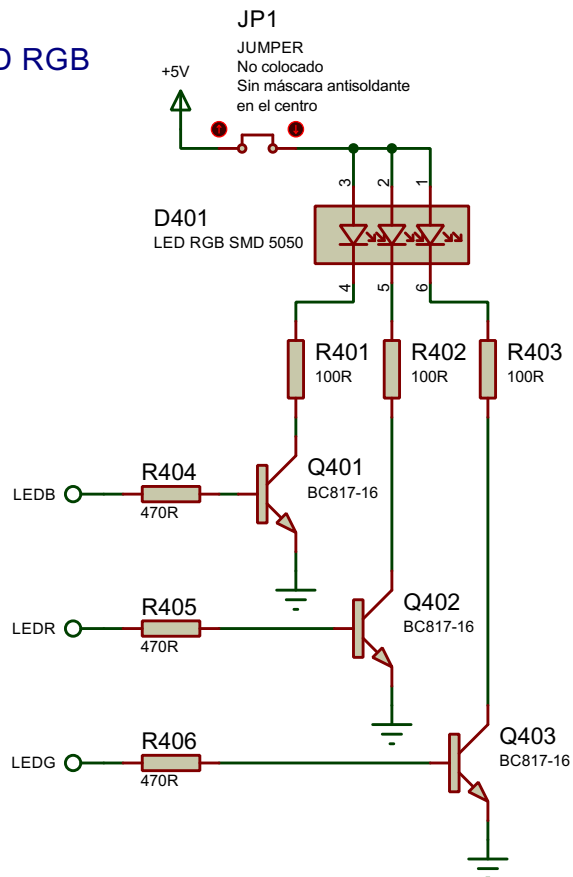
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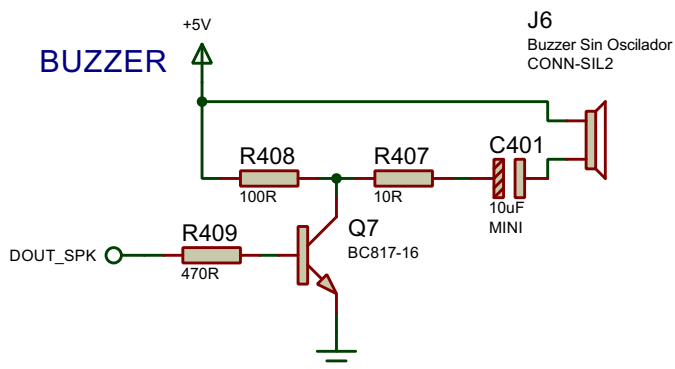
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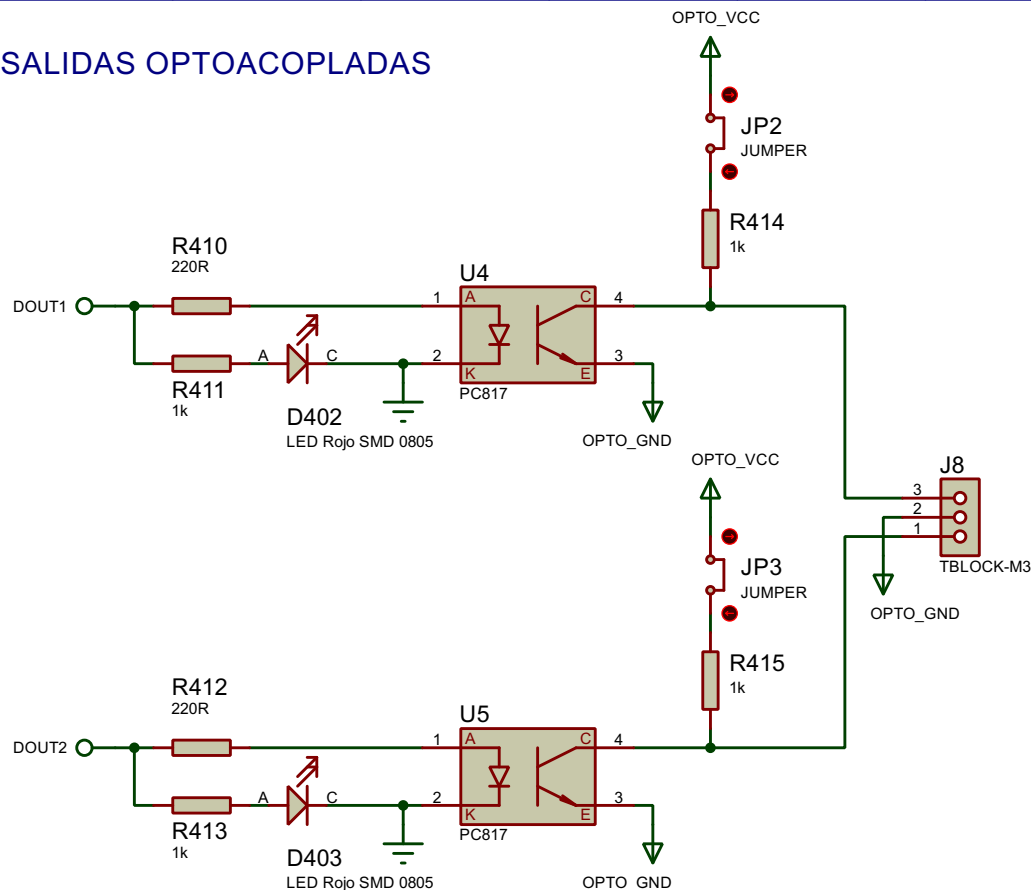
LED RGB



BUZZER



SALIDAS OPTOACOPLADAS



Datos de medición:

$V_f = 1.2V$
 $V_{cc} = 4.6V$
 $R_c = 1k$
 $V_{ce(sat)} = 0.2V$
 $f = 2kHz$
 $t_r = 11\mu s$

TÍTULO: Baseboard STM32F4-DISCOVERY

Salidas Optoacopladas - Led RGB - Buzzer

AUTORES: G. Ferrari, L. Davico, N. Espinosa

REV: 3.0

ESCUELA CRISTIANA EVANGÉLICA ARGENTINA

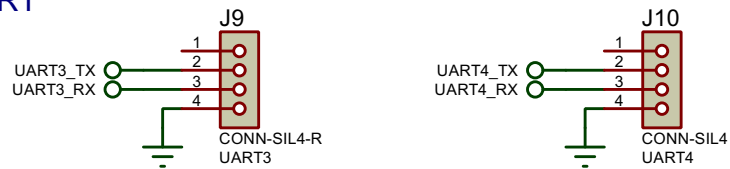
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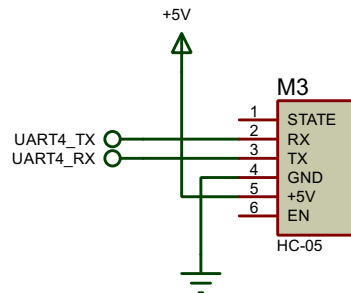
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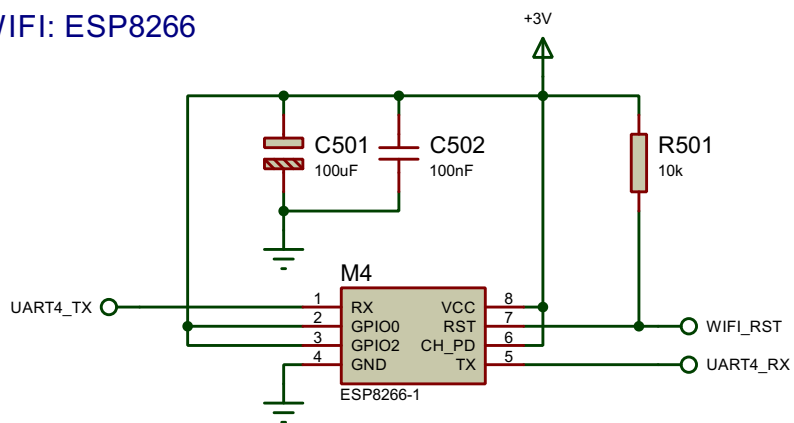
UART



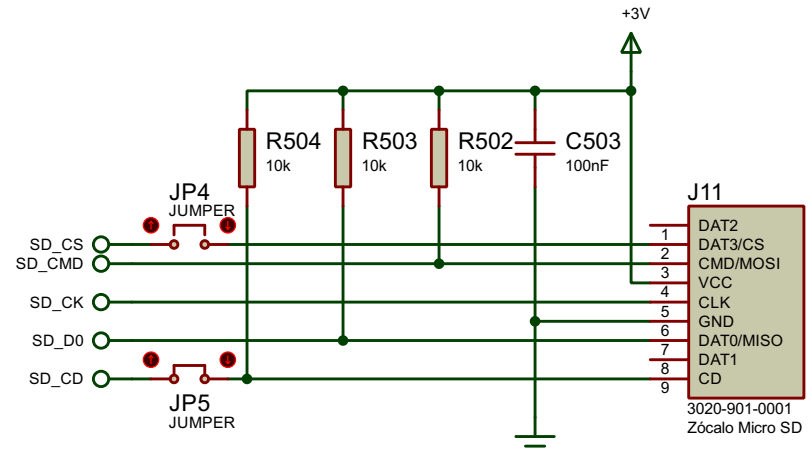
BLUETOOTH: HC-05



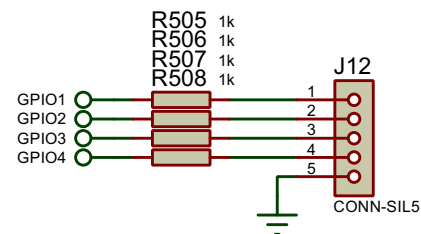
WIFI: ESP8266



TARJETA MICRO SD



PINES GPIO DISPONIBLES



TÍTULO: **Baseboard STM32F4-DISCOVERY**

Tarjeta Micro SD - WiFi - Bluetooth - UART - GPIO

AUTORES: G. Ferrari, L. Davico, N. Espinosa

REV: 3.0

ESCUELA CRISTIANA EVANGÉLICA ARGENTINA

FECHA:

1/12/2017

PÁGINA:

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