

The image shows a detailed PCB layout for the TM4C123GXL and CAN Bus chip. The layout is organized into several functional areas:

- Mounting Holes, Test points:** Located on the left side, this area includes eight mounting holes (H1-H8) and eight test points (TP1-TP8). The test points are labeled with their respective signals: TP1 (5V_BackLight), TP2 (5V_TexasInstruments), TP3 (+3.3V_ESP32), TP4 (+3.3V_ESP32_RF), TP5 (5V_BackLight), TP6 (5V_TexasInstruments), TP7 (+3.3V_ESP32), and TP8 (+3.3V_ESP32_RF).
- Voltage Regulators and Connectors:** Located on the right side, this area includes two voltage regulators (U7 and U8) and two connectors (J4 and J5). The regulators are labeled with their respective signals: U7 (+3.3V_ESP32) and U8 (+3.3V_ESP32_RF). The connectors are labeled with their respective signals: J4 (CAN Bus) and J5 (RF ESP32).
- Other Components:** The layout also includes various other components such as capacitors (C1, C2, C3, C4, C5, C6), resistors (R1, R2), and a microcontroller (U1).

The diagram illustrates the pinout of the ESP32-DevKitC module, showing connections for the ESP32 module, U0TVD, U0RYD, and various input/output pins. The diagram includes labels for pins 1-40 and their corresponding functions, such as CHIP_PU, SENSOR_VP, SENSOR_VN, VDET_1, VDET_2, 32K_YP, 32K_YN, DAC_1, DAC_2, ADC2_CH7, MTMS, MTDI, MTCK, SD_DATA2, SD_DATA3, CMD, 5v, GND, and various input/output pins like I2C, SPI, and UART. It also shows connections for external components like the ESP32 module, U0TVD, U0RYD, and various input/output pins.

Pin	Function	Pin	Function	Pin	Function
1	3v3	21	32K_YP / GPIO32 / ADC1_CH4	31	IFTI_Pin16
2	CHIP_PU	22	32K_YN / GPIO33 / ADC1_CH5	32	IFTI_Pin17
3	SENSOR_VP / GPIO36 / ADC1_CH0	23	DAC_1 / ADC2_CH8 / GPIO25	33	IFTI_Pin19
4	SENSOR_VN / GPIO39 / ADC1_CH3	24	DAC_2 / ADC2_CH9 / GPIO26	34	IFTI_Pin20
5	VDET_1 / GPIO34 / ADC1_CH6	25	ADC2_CH7 / GPIO27	35	IFTI_Pin21
6	VDET_2 / GPIO35 / ADC1_CH7	26	*GPIO0 / BOOT / ADC2_CH1	36	IFTI_Pin22
7	32K_YP / GPIO32 / ADC1_CH4	27	ADC2_CH2 / *GPIO2	37	IFTI_Pin23
8	32K_YN / GPIO33 / ADC1_CH5	28	*GPIO10 / SD_DATA2 / GPIO9	38	IFTI_Pin24
9	DAC_1 / ADC2_CH8 / GPIO25	29	SD_DATA3 / GPIO10	39	IFTI_Pin25
10	DAC_2 / ADC2_CH9 / GPIO26	30	CMD	40	IFTI_Pin26
11	ADC2_CH7 / GPIO27	31	5v		
12	MTMS / GPIO14 / ADC2_CH6				
13	MTDI / GPIO12 / ADC2_CH5				
14	MTCK / GPIO13 / ADC2_CH4				
15	SD_DATA2 / GPIO9				
16	SD_DATA3 / GPIO10				
17	CMD				
18	5v				
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