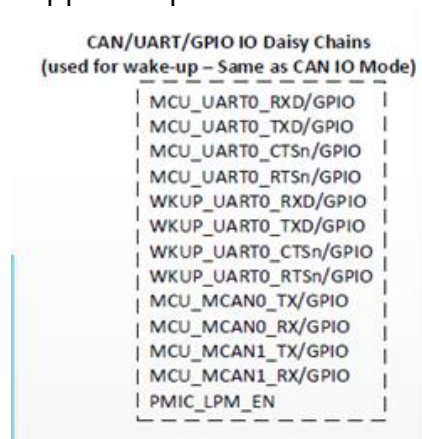


## UART wakeup source SK modifications for partial IO low power mode (LPM)

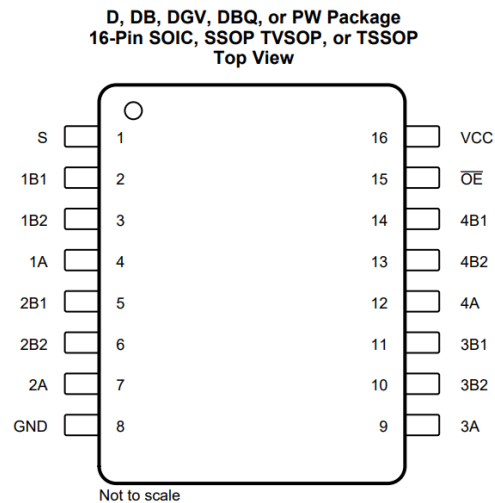
### Supported pins



### Rework details

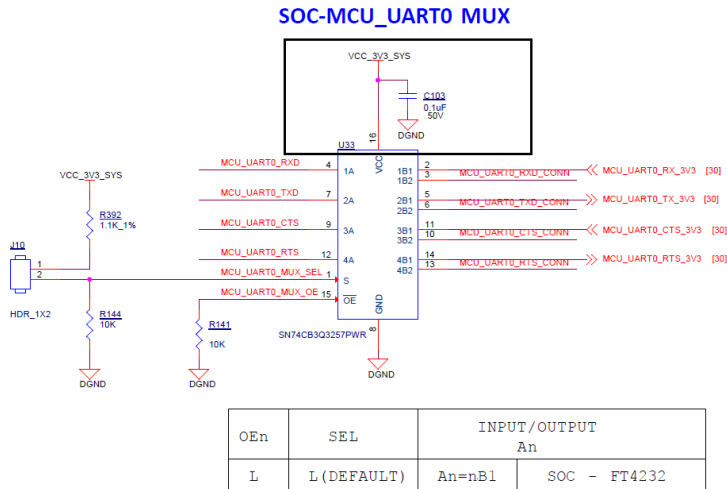
<https://www.ti.com/lit/ds/symlink/sn74cb3q3257.pdf>

### SN74CB3Q3257PWR



SK	Reference Designator	Pin
SK-AM62A-LP	U33	VCC, 16

## AM62A schematics reference

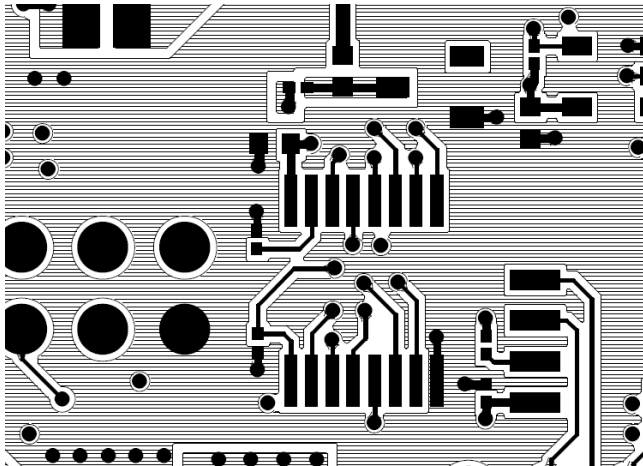


## Modifications

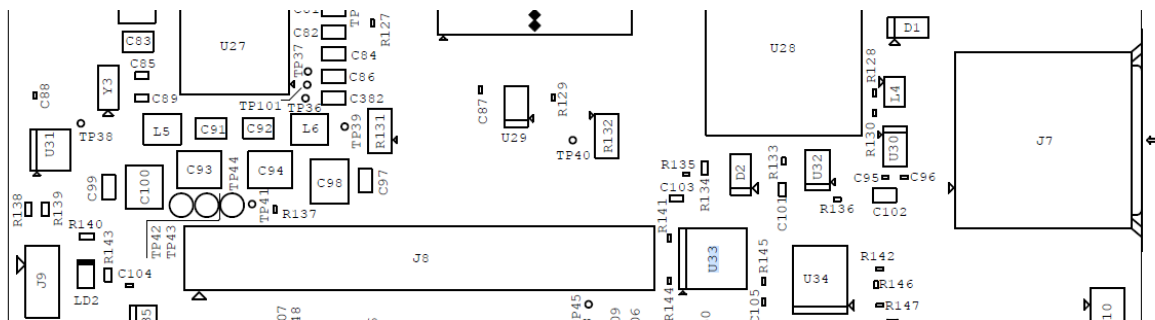
Lift pin 16 connected to VCC\_3V3\_SYS

Connect pin 16 to VCC\_3V3\_MAIN or CAN\_IO\_3V3 available nearest to the IC  
Alternatively, cut the track on the PCB and add a jumper

## Layout

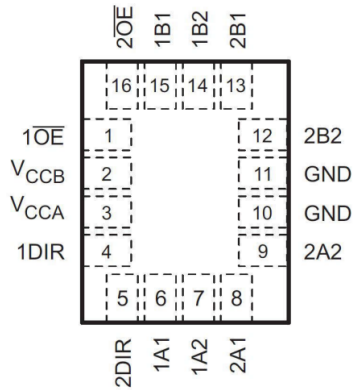


## Board Placement



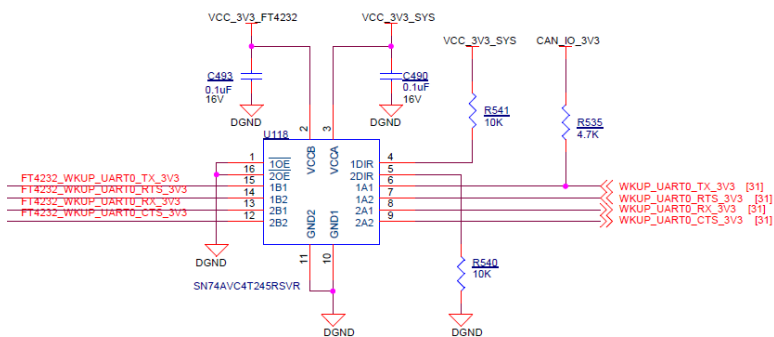
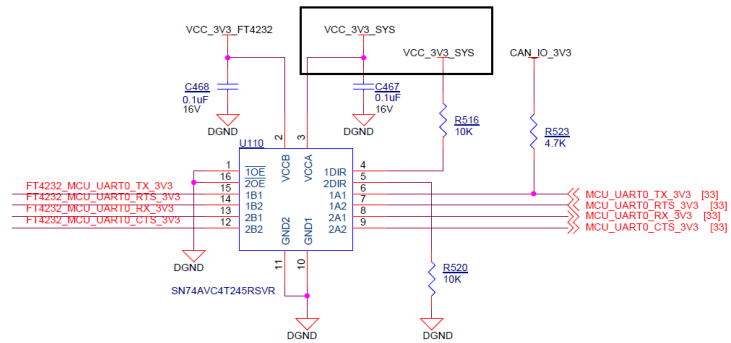
<https://www.ti.com/lit/ds/symlink/sn74avc4t245.pdf>

## SN74AVC4T245RSVR



SK	Reference Designator	Pin
SK-AM62A-LP	U110, U118	VCCA, pin 3 1DIR, pin 4

### AM62A schematics reference



## Modifications

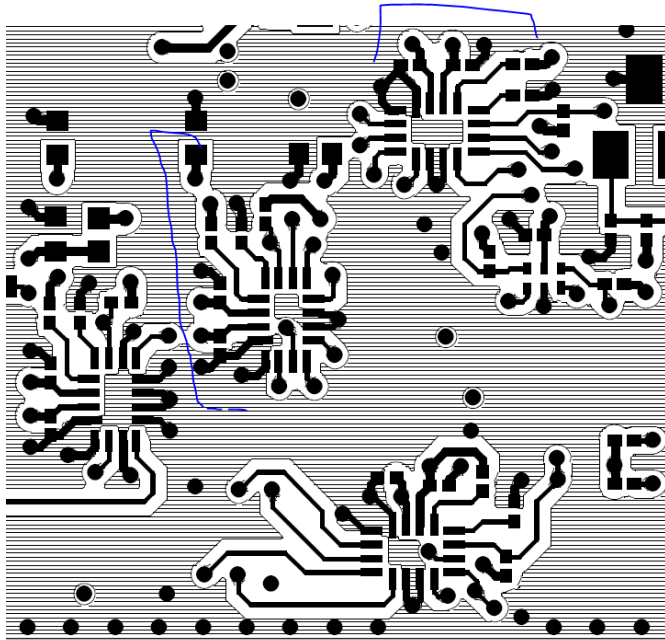
Cut the tracks connecting Pin 3 to VCC\_3V3\_SYS

Connect pin 3 to CAN\_IO\_3V3

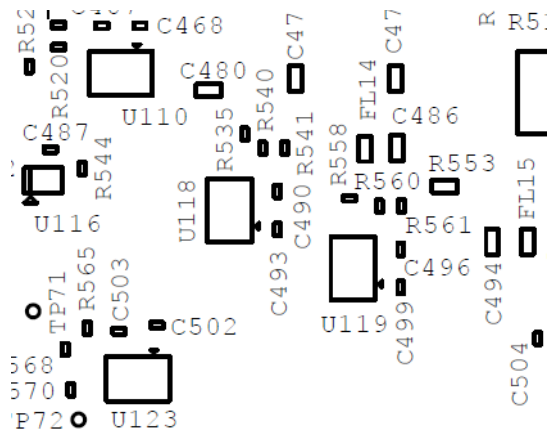
R516 – Reorient the resistor out of the pad area to disconnect 3V3\_SYS and connect CAN\_IO\_3V3

R541 – Reorient the resistor out of the pad area to disconnect 3V3\_SYS and connect CAN\_IO\_3V3

## Layout



## Placement



### **Additional files for reference**

Schematics

Searchable assembly file

### **SK-AM62A-LP Design Package Folder and Files List**

<https://www.ti.com/lit/pdf/sprt781>

### **Additional Files**

#### **Recommended References for review and design of custom board**

##### **AM62Ax**

<https://www.ti.com/lit/an/sprad85/sprad85.pdf>

<https://www.ti.com/lit/an/sprad21c/sprad21c.pdf>

<https://www.ti.com/lit/an/sprad66a/sprad66a.pdf>

<https://e2e.ti.com/support/processors-group/processors/f/processors-forum/1280753/faq-am62a7-am62a7-q1-am62a3-am62a3-q1-custom-board-hardware-design---faqs-related-to-processor-collaterals-functioning-peripherals-interface-and-starter-kit>

<https://e2e.ti.com/support/processors-group/processors/f/processors-forum/1340905/faq-am62a7-am62a7-q1-am62a3-am62a3-q1---custom-board-hardware-design---design-and-review-notes-for-reuse-of-sk-am62a-lp-schematics>

<https://e2e.ti.com/support/processors-group/processors/f/processors-forum/1386586/faq-am62x-am64x-custom-board-hardware-design-how-to-handle-used-unused-pins-peripherals-e-g-gpios-serdes-usb-csi-mmc-emmc-sd-card-csi-oldi-dsi>