
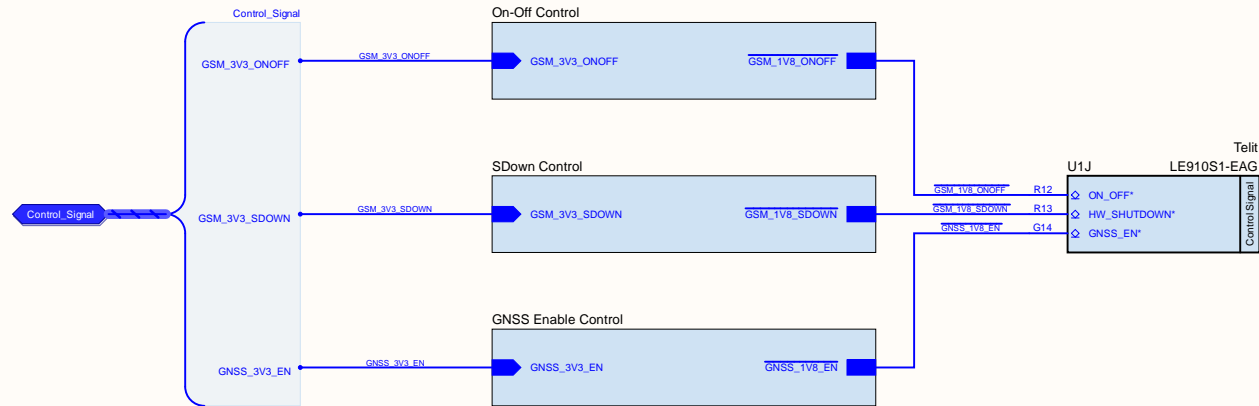

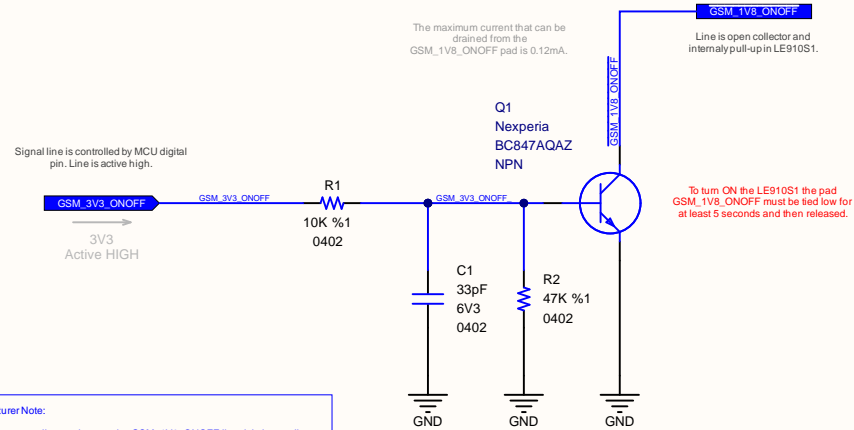


VIOT1 : Main Power  
Supply for LE910S1  
(Baseband)

<b>GSM Modem Power Feed</b>			Engineer : <a href="#">Günce Akkoyun</a>	<b>STF Res-Dev</b> Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : <b>A4</b>			Customer : <a href="#">STF Irrigation</a>		
Date : <b>15.09.2022</b>			Product ID : <b>--</b>		
Time : <b>17:21:04</b>			Module ID : <b>B101AA</b>		
Page : <b>4 / 15</b>			Version : <b>R1</b>		
File : <a href="#">GSM Modem Power Feed.SchDoc</a>			Revision : <b>00.00.01</b>		



Signal Control Block			Engineer : Gunce Akkoyun	<b>STF Res-Dev</b> Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : STF Irrigation		
Size : A4			Product ID : --		
Project : --			Module ID : B101AA		
Date : 15.09.2022			Version : R1		
Time : 17:21:04			Revision : 00.00.01		
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File : Signal Control Block.SchDoc					




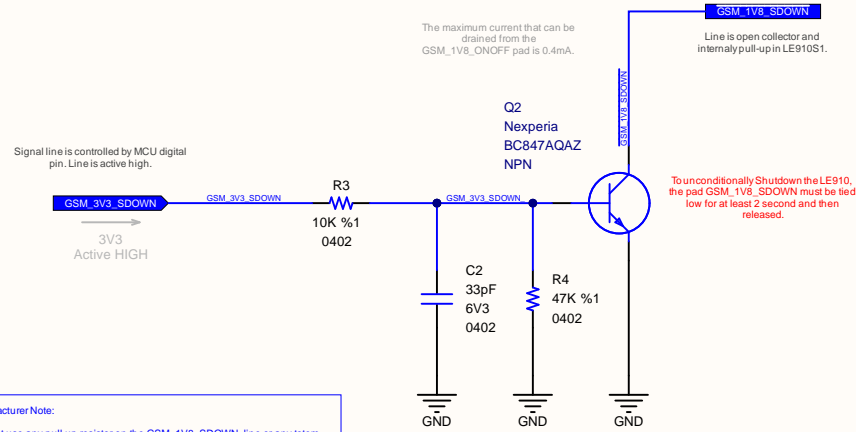
Manufacturer Note:

\* Don't use any pull up resistor on the GSM\_1V8\_ONOFF line, it is internally pulled up. Using pull up resistor may bring to latch up problems on the LE910 power regulator and improper power on/off of the module. The line GSM\_1V8\_ONOFF must be connected only in open collector configuration.

\* To check if the device has powered on, the hardware line PWRMON should be monitored. The device is powered on when PWRMON goes high.

\* It is mandatory to avoid sending data to the serial ports during the first 200ms of the module start-up.

On / Off Signal Control			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : STF Irrigation		
Size : A4		Project : --	Product ID : --		
Date : 15.09.2022		Time : 17:21:04	Module ID : B101AA		
File : On-Off Signal Control.SchDoc		Page : 6 / 15	Version : R1		
			Revision : 00.00.01		




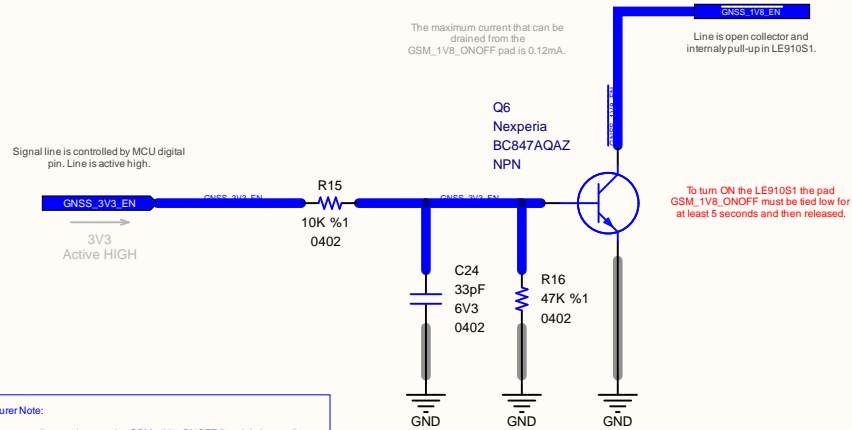
Manufacturer Note:

\* Do not use any pull up resistor on the GSM\_1V8\_SDOW line or any totem pole digital output. Using pull up resistor may bring to latch up problems on the LE910S1 power regulator and improper functioning of the module. The line GSM\_1V8\_SDOW must be connected only in open collector configuration, since it is already internally pull-up to VBATT.

\* The unconditional hardware shutdown must always be implemented on the boards and the software must use it as an emergency exit procedure.

\* In order to avoid a back powering effect it is recommended to avoid having any HIGH logic level signal applied to the digital pins of the GE910 when the module is powered off or during an ON/OFF transition.

Shut Down Signal Control				Engineer : Gunce Akkoyun	STF Res-Dev  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4				Customer : STF Irrigation		
Project : --				Product ID : --		
Date : 15.09.2022				Module ID : B101AA		
Time : 17:21:05				Version : R1		
Page : 7 / 15				Revision : 00.00.01		
File : Shut Down Signal Control.SchDoc						



Manufacturer Note:

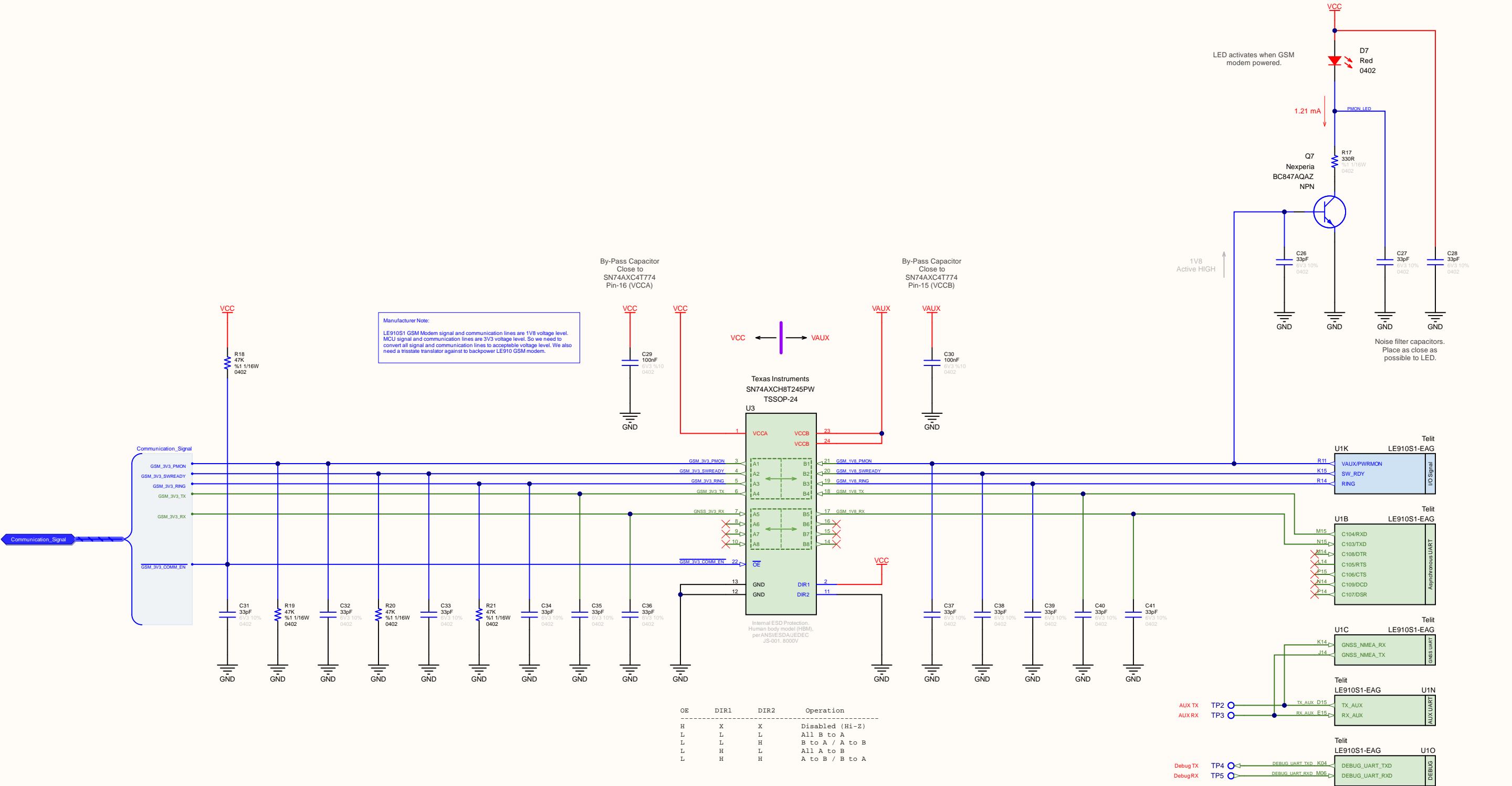
\* Don't use any pull up resistor on the GSM\_1V8\_ONOFF line, it is internally pulled up. Using pull up resistor may bring to latch up problems on the LE910 power regulator and improper power on/off of the module. The line GSM\_1V8\_ONOFF must be connected only in open collector configuration.

\* To check if the device has powered on, the hardware line PWRMON should be monitored. The device is powered on when PWRMON goes high.

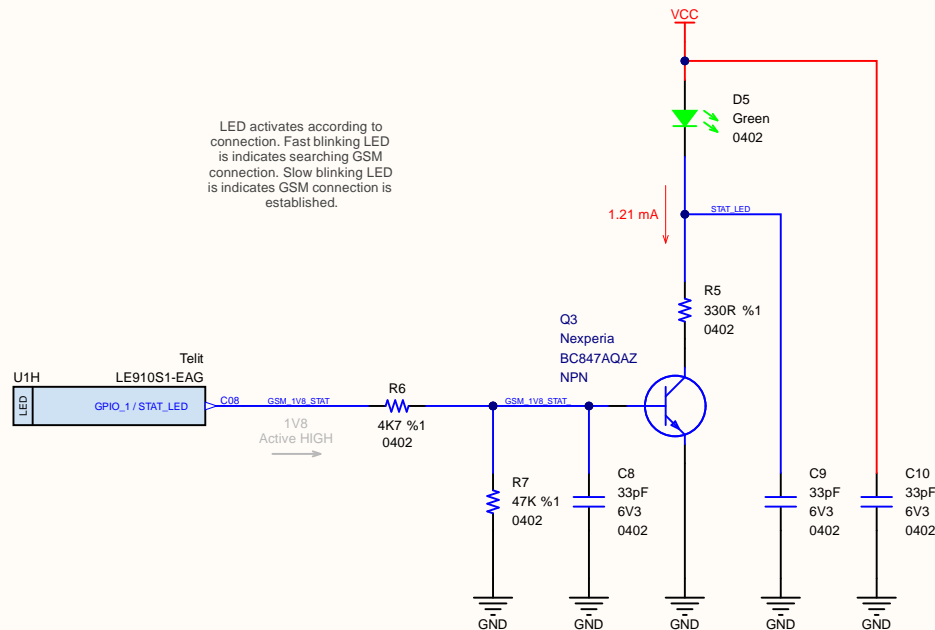
\* It is mandatory to avoid sending data to the serial ports during the first 200ms of the module start-up.

On / Off Signal Control			Engineer : Günc Akkoyun	<b>STF Res-Dev</b> Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4			Customer : STF Irrigation		
Date : 15.09.2022			Product ID : --		
Time : 17:21:05			Module ID : B101AA		
Page : 8 / 15			Version : R1		
File : GNSS EN Signal Control.SchDoc			Revision : 00.00.01		




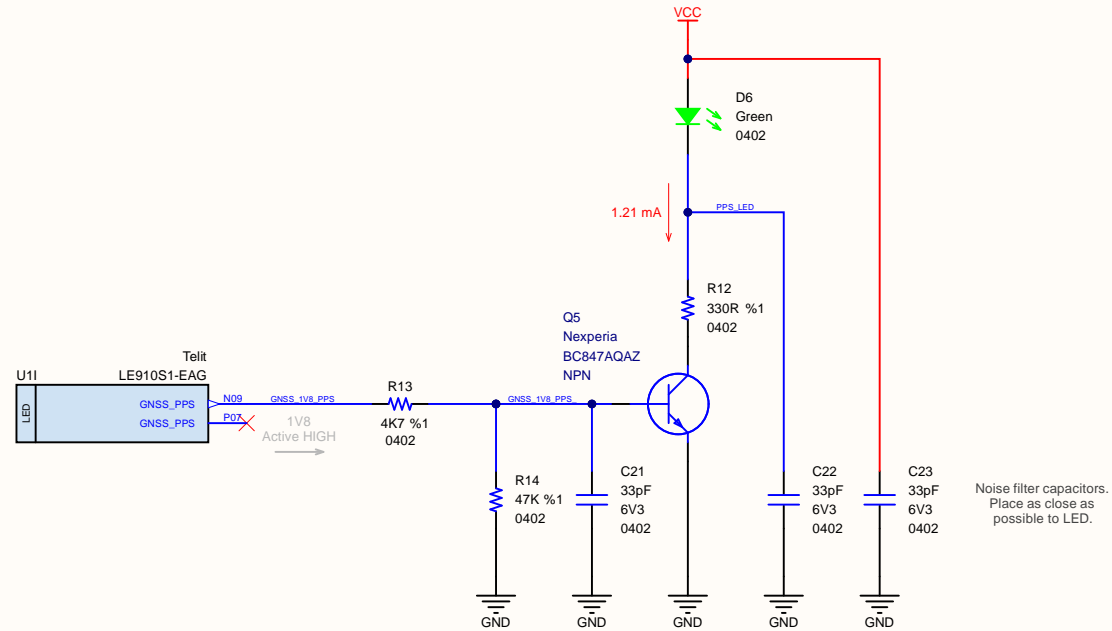



LED activates according to connection. Fast blinking LED is indicates searching GSM connection. Slow blinking LED is indicates GSM connection is established.

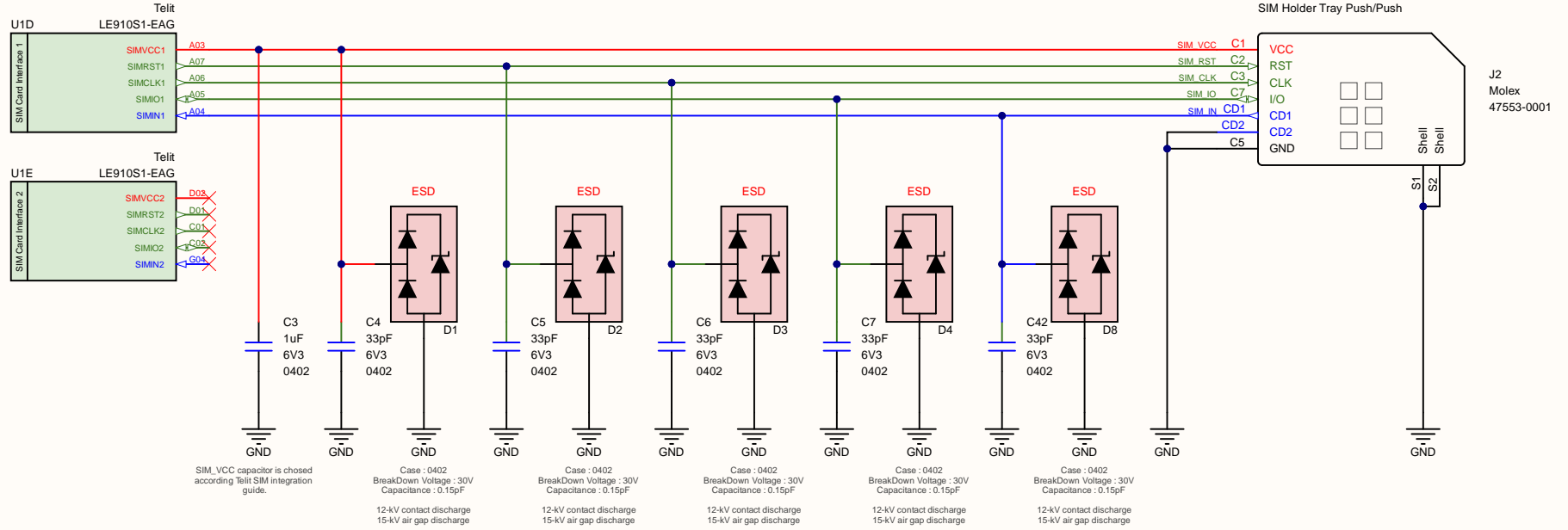



Noise filter capacitors.  
Place as close as possible to LED.

Modem LED Driver			Engineer : Gunce Akkoyun	STF Res-Dev  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4			Customer : STF Irrigation		
Project : --			Product ID : --		
Date : 15.09.2022			Module ID : B101AA		
Time : 17:21:05			Version : R1		
Page : 10 / 15			Revision : 00.00.01		
File : GSM Stat LED Driver.SchDoc					

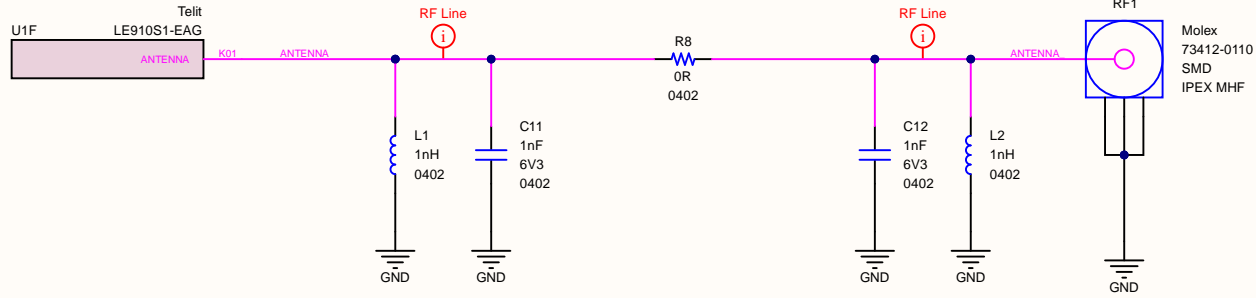



GNSS PPS LED Driver			Engineer : Günc Akkoyun	<b>STF Res-Dev</b> Büyük Kayalık Mah. 4. OSB 103. Cad. No : 12 Selçuklu / Konya Türkiye	
Size : A4	Project : --		Customer : STF Irrigation		
Date : 15.09.2022	Time : 17:21:05	Page : 11 / 15	Product ID : --		
File : GNSS PPS LED Driver.SchDoc			Module ID : B101AA		
			Version : R1		
			Revision : 00.00.01		

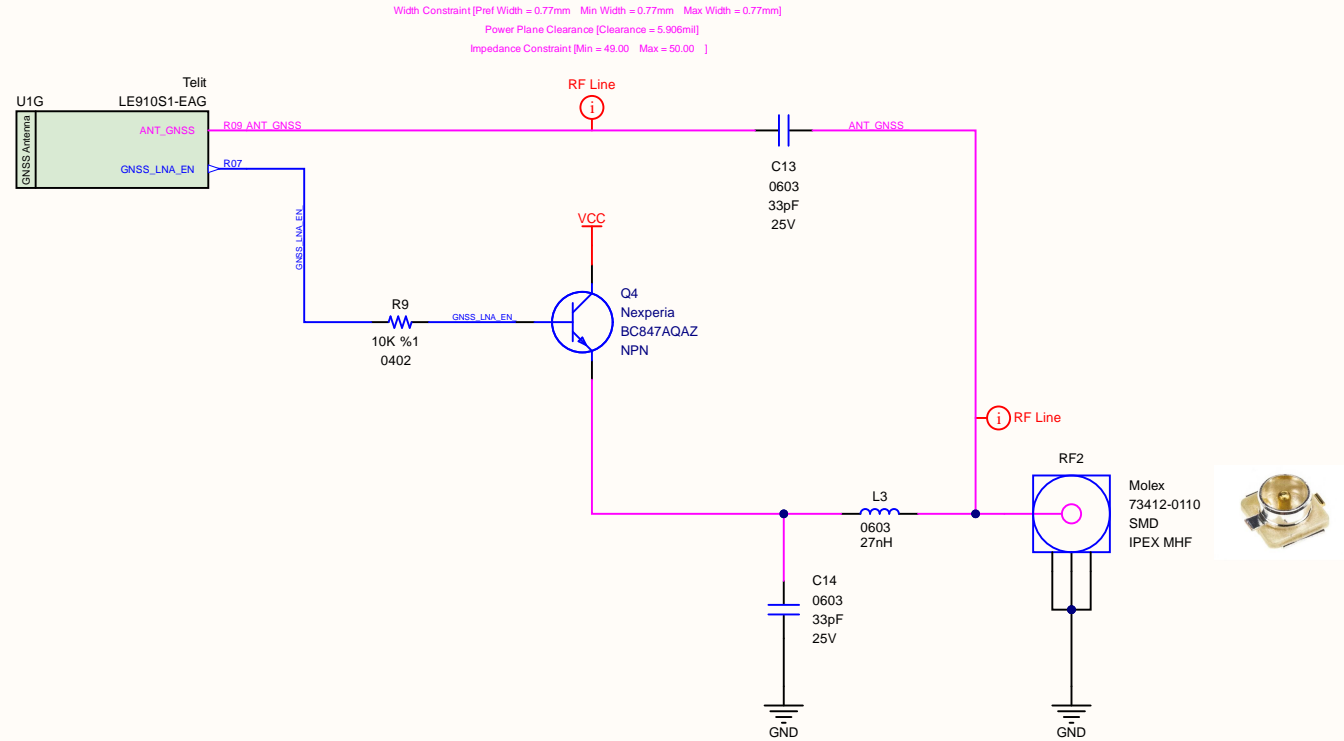


SIM Tray				Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selouklu / Konya Türkiye	
Size : A4		Project : --		Customer : STF Irrigation		
Date : 15.09.2022		Time : 17:21:05		Product ID : --		
File : SIM Socket.SchDoc		Page : 12 / 15		Module ID : B101AA		
				Version : R1		
				Revision : 00.00.01		

Width Constraint [Pref Width = 0.77mm Min Width = 0.77mm Max Width = 0.77mm]  
Power Plane Clearance [Clearance = 5.906mil]  
Impedance Constraint [Min = 49.00 Max = 50.00 ]



GSM Antenna & Match Circuit			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : STF Irrigation		
Size : A4		Project : --	Product ID : --		
			Module ID : B101AA		
Date : 15.09.2022		Time : 17:21:05	Version : R1		
Page : 13 / 15			Revision : 00.00.01		
File : GSM Antenna.SchDoc					



### GNSS Antenna & LNA

Size : A4

Project : --

Date : 15.09.2022

Time : 17:21:05

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File : GNSS Antenna.SchDoc

Engineer : Güneç Akkoyun

Customer : STF Irrigation

Product ID : --

Module ID : B101AA

Version : R1

Revision : 00.00.01

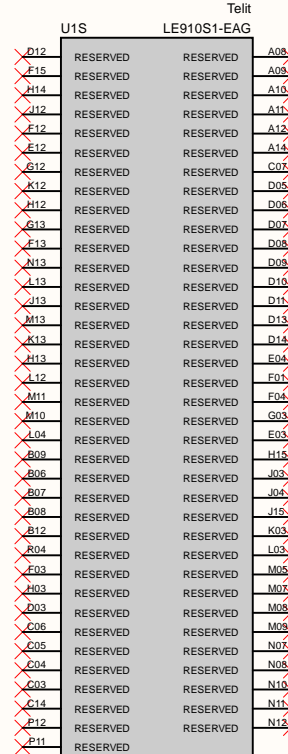
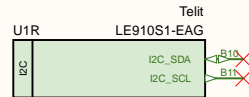
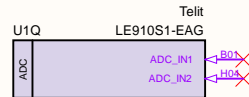
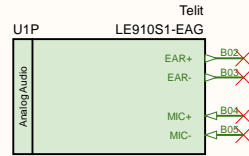
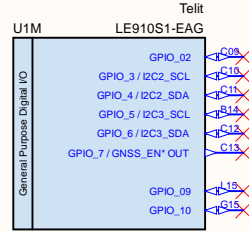
### STF Res-Dev


Buyuk Kayacik Mah. 4. OSB

103. Cad. No : 12

Selcuklu / Konya Türkiye

**stf**



LE910 Un Used Pins			Engineer : Günce Akkoyun	<b>STF Res-Dev</b> Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4			Customer : STF Irrigation		
Date : 15.09.2022			Product ID : --		
Time : 17:21:05			Module ID : B101AA		
Page : 15 / 15			Version : R1		
File : GSM Un Used.SchDoc			Revision : 00.00.01		