SCHEMATIC DIAGRAMS

PRODUCT NAME LTE-M Ver4

UNIT NAME DTNLPWALF4-LO

UNIT NO.

PWA NAME

PWA NO.

PAGE	SH.	FUNCTION	REV	PAGE	SH.	FUNCTION	REV
1	001	Cover Sheet	00	26			
2	700	LTE-M Module	00	27			
3	703	RF	00	28			
4	704	nanoSIM	00	29			
5	705	I/O Expander	00	30			
6	706	Level Shift	00	31			
7	707	LTE Power	00	32			
8	708	Leafony Bus	00	33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

REV. MARK	CONTENTS	APPROVED BY	REVISED BY	REGISTERED

APPROVED BY	CHECKED BY	DESIGNED BY	TITLE	TOTAL	PAGE NO.	REV. MARK	DRAWING. NO.
		-	LTE-M Ver4 LTE	8	1	00	DD1805845-16

2022.05.20 13:57

LBAD0XX1SC-713TEMP

LPWA Module
[DLLBAD0XX]
IC700

[CONT]
PMU_VRTC (DCDC ON)GPIO5
SC_SWP
PMU_SHUTDOWN
PMU_POWER_BUTTON PMU_AT_IN
PMU_WAKEUP PMU_AT_OUT

[RF]
RF_RXTX VDD_RF
RFFE_SCLK
RFFE_SDATA
GNSS_ANT (Ex LNA)GPIO36
GNSS_COMMON_ANT

[SIM]
SIM_DETECT VSIM
SIMRST
SIMCLK
SIMIO

[UART0 Host I/F]
UART0_RX UART0_TX
UART0_CTS UART0_RTS

[UART1 LOG]
UART1_RX UART1_TX
UART1_CTS UART1_RTS

[UART2 CLI]
UART2_RX UART2_TX
UART2_CTS UART2_RTS

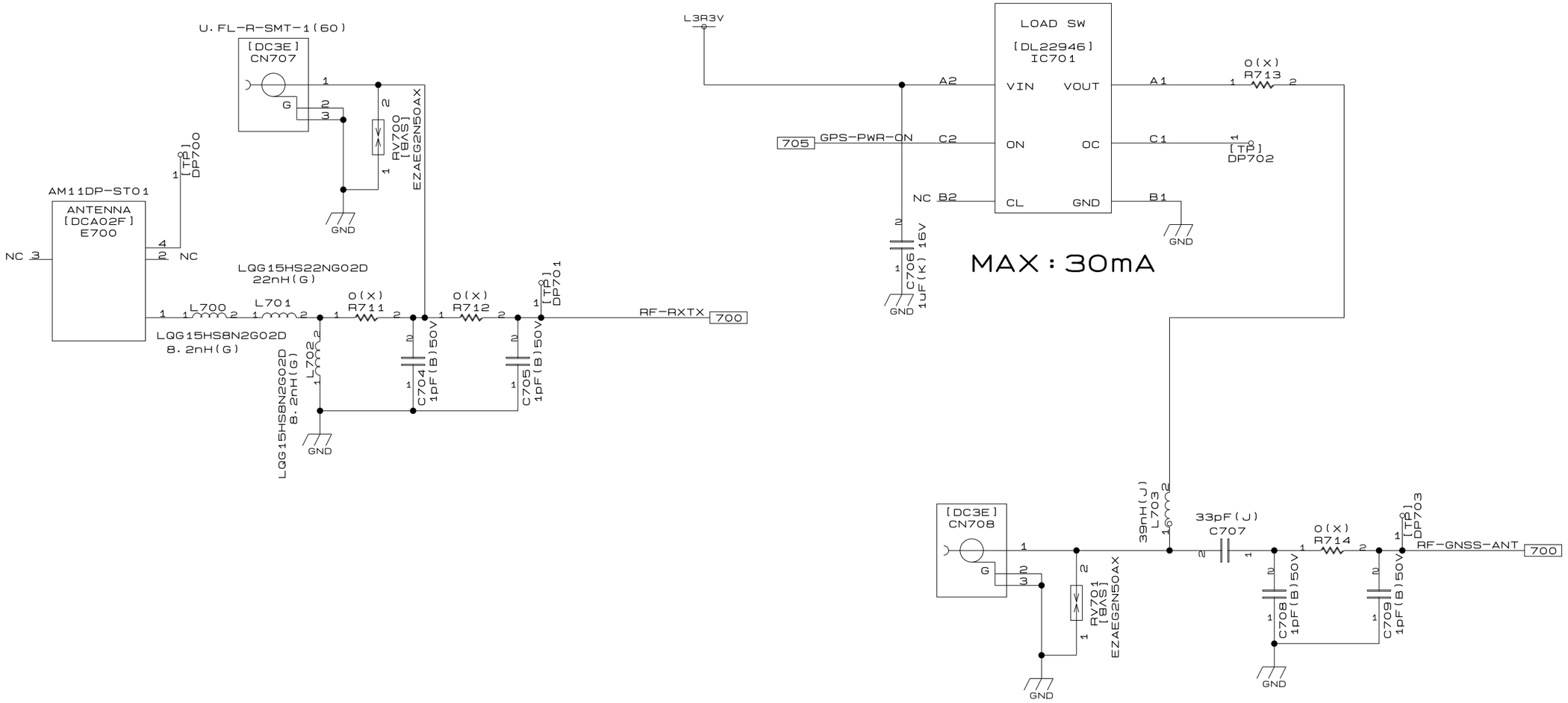
[GPIO]
(Reset status)GPIO50
(Coexistence ind.)GPIO2
(TX ind.)GPIO53
EJ_TRST PMU_EXT_ALARM

[POWER]
NC
VDD_AUX
VDDIO
GND
PMU_VBACKUP
PMU_VCAP
VBAT_FEM
VBAT
VBAT

705 708 LTE-SHUTDOWN
705 708 LTE-WAKEUP
620k(J) R701
620k(J) R702
620k(J) R703
NOT MOUNT
10k(J) R700
703 RF-RXTX
703 RF-GNSS-ANT
R704 0(X)
NC 70
706 LTE-UART0-RXD
706 LTE-UART0-CTS
NC 45
NC 94
708 LTE-UART2-RXD
708 LTE-UART2-CTS
10k(J) R705
PLTE
PLTE-FEM
C700 10uF(K) 16V 1608
C701 10nF(K) 50V
C702 10uF(K) 16V 1608
C703 10nF(K) 50V
NC
R706 0(X)
R708 0(X)
LTE-SC-SWP 705
R710 0(X)
VSIM 704
SIMRST 704
SIMCLK 704
SIMIO 704
LTE-UART0-TXD 706
LTE-UART0-RTS 706
LTE-UART2-TXD 708
LTE-UART2-RTS 708
LTE-RST-STS 705
L1R8V
R707 0(X)
1M(F) R709

DESIGNED BY	TITLE	FUNCTION	SH. NO.	PAGE NO.	REV. MARK	DRAWING. NO.
—	LTE-M Ver4 LTE	LTE-M Module	700	2	00	DD1805845-16

2022.05.20 13:57

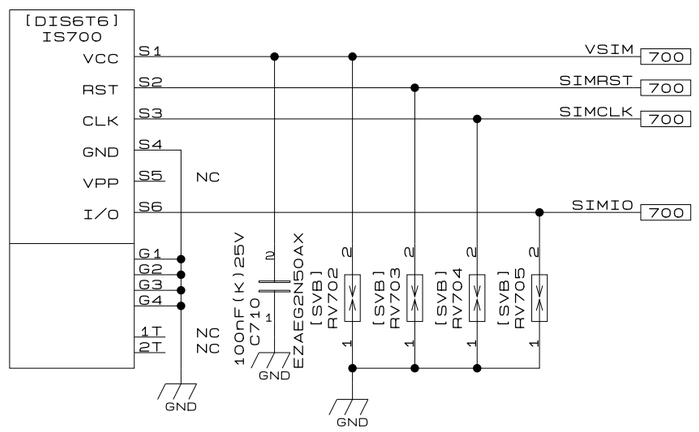


DESIGNED BY	TITLE	FUNCTION	SH. NO.	PAGE NO.	REV. MARK	DRAWING. NO.
—	LTE-M Ver4 LTE	RF	703	3	00	DD1805845-16

2022.05.20 13:57

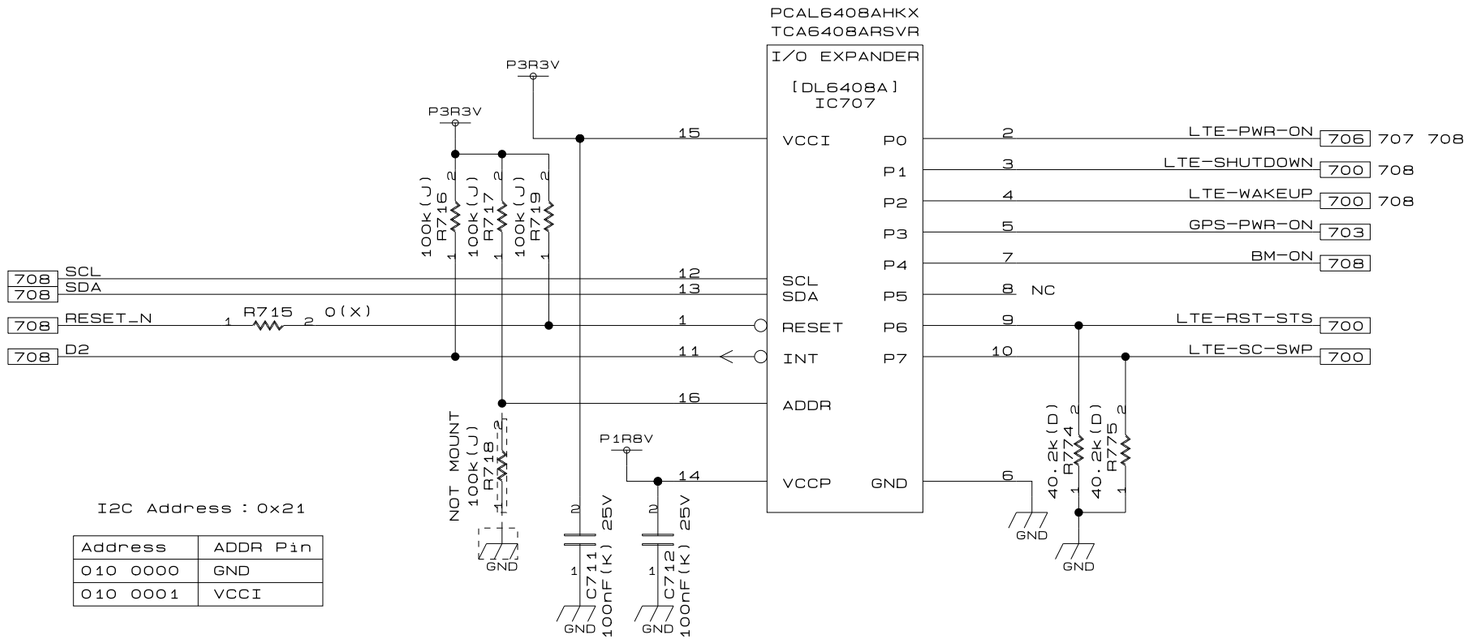
nanoSIM

1042240820



DESIGNED BY	TITLE	FUNCTION	SH. NO.	PAGE NO.	REV. MARK	DRAWING. NO.
—	LTE-M Ver4 LTE	nanoSIM	704	4	00	DD1805845-16

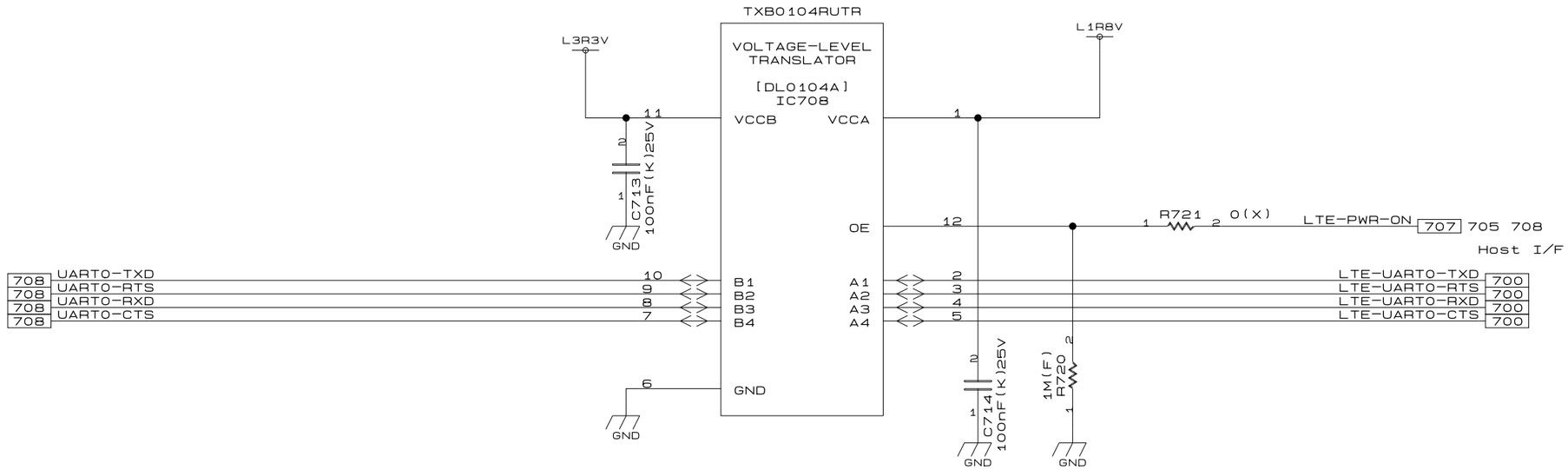
2022.05.20 13:57



DESIGNED BY	TITLE	FUNCTION	SH. NO.	PAGE NO.	REV. MARK	DRAWING. NO.
—	LTE-M Ver4 LTE	I/O Expander	705	5	00	DD1805845-16

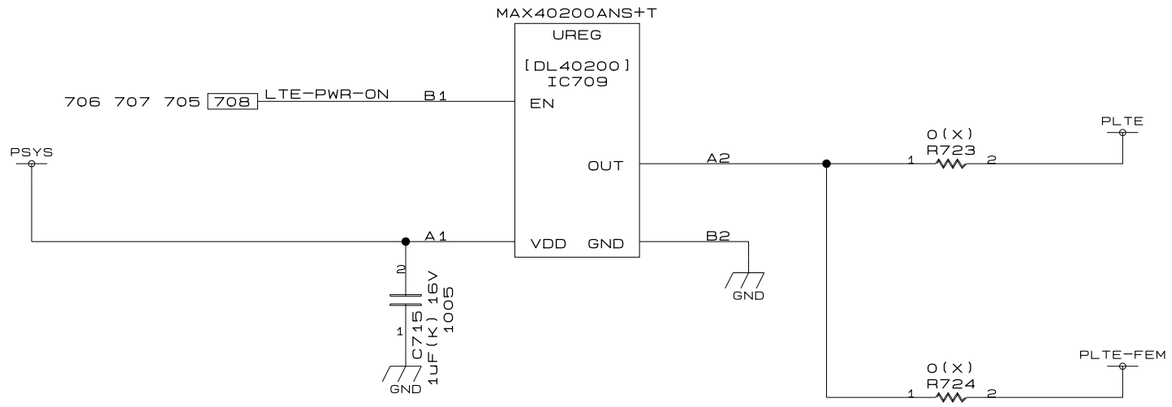
2022.05.20 13:57

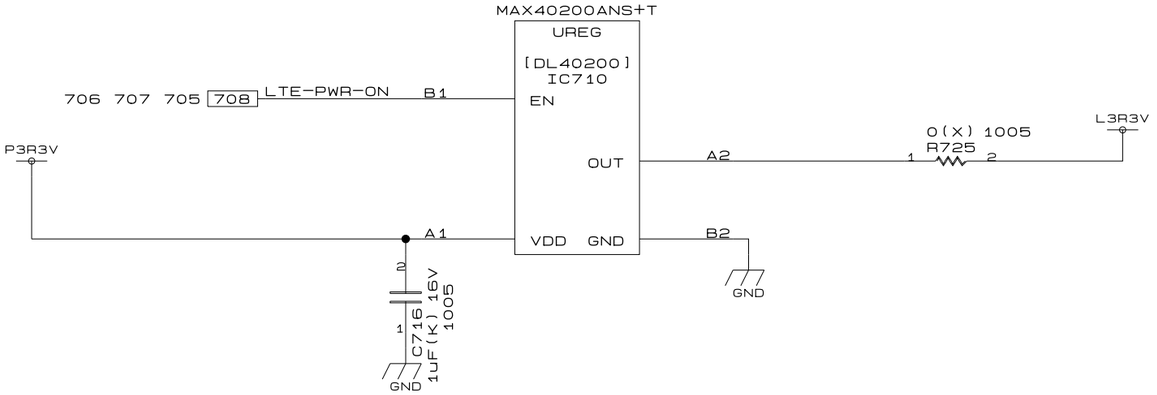
3.3V系← →1.8V系

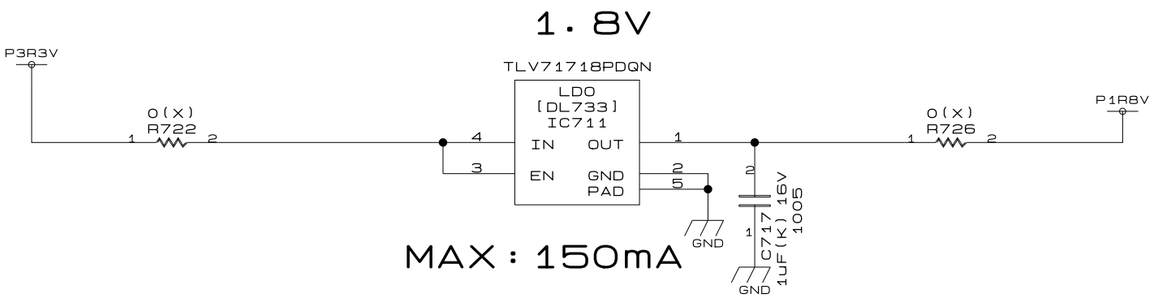


DESIGNED BY	TITLE	FUNCTION	SH. NO.	PAGE NO.	REV. MARK	DRAWING. NO.
—	LTE-M Ver4 LTE	Level Shift	706	6	00	DD1805845-16

2022.05.20 13:57

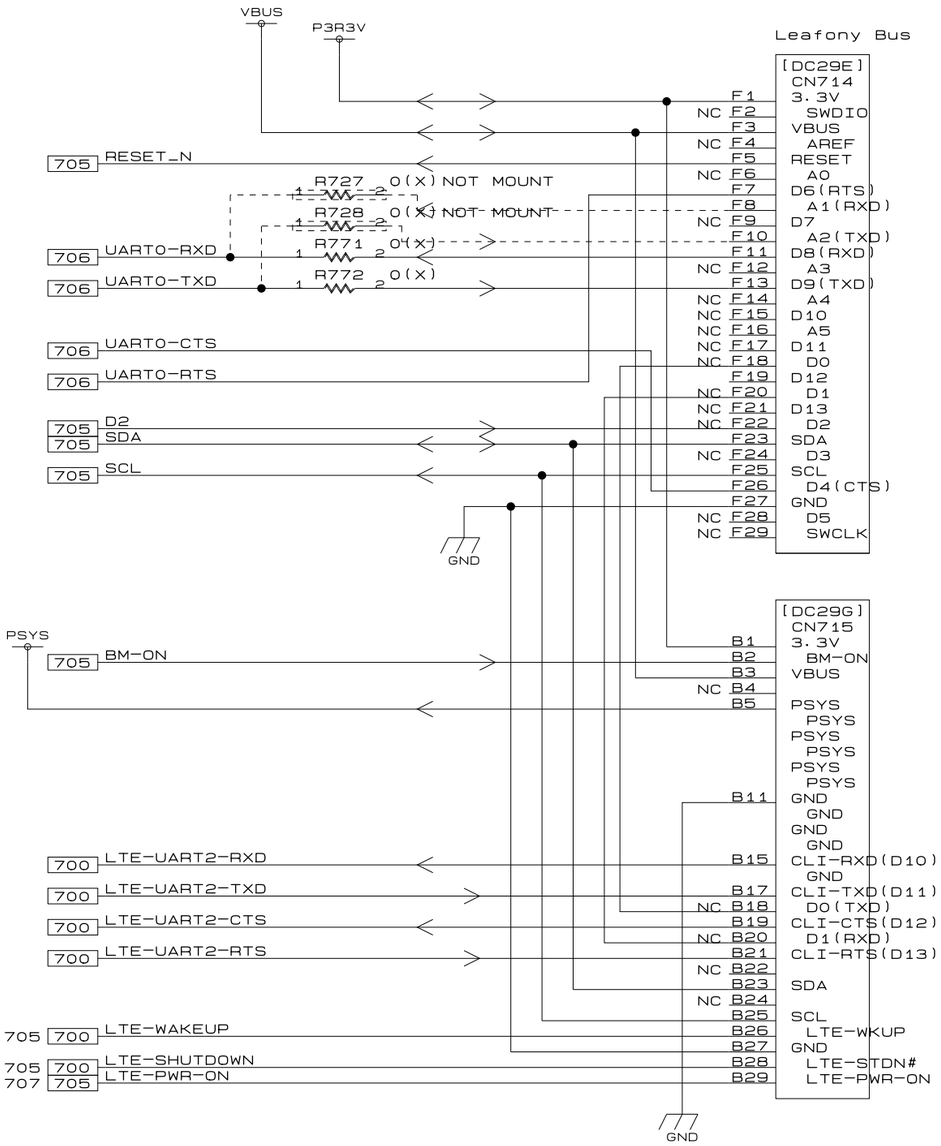






DESIGNED BY	TITLE	FUNCTION	SH. NO.	PAGE NO.	REV. MARK	DRAWING. NO.
—	LTE-M Ver4 LTE	LTE Power	707	7	00	DD1805845-16

2022.05.20 13:57



DESIGNED BY	TITLE	FUNCTION	SH. NO.	PAGE NO.	REV. MARK	DRAWING. NO.
—	LTE-M Ver4 LTE	Leafony Bus	708	8	00	DD1805845-16

2022.05.20 13:57