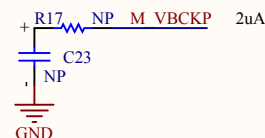


Power domain	Voltage	Estimated Maximum Current
Vin	12V+/-10%	<500 mA
5V	5V	222mA
3V3	3,3V	200mA
3V3GPS	3,3V	22mA + 5mA Active ant.
3V8	3,8V	<1A (2,5A peak)



2G_MBD_CS_189F00

Power_SchDoc

Size: A4

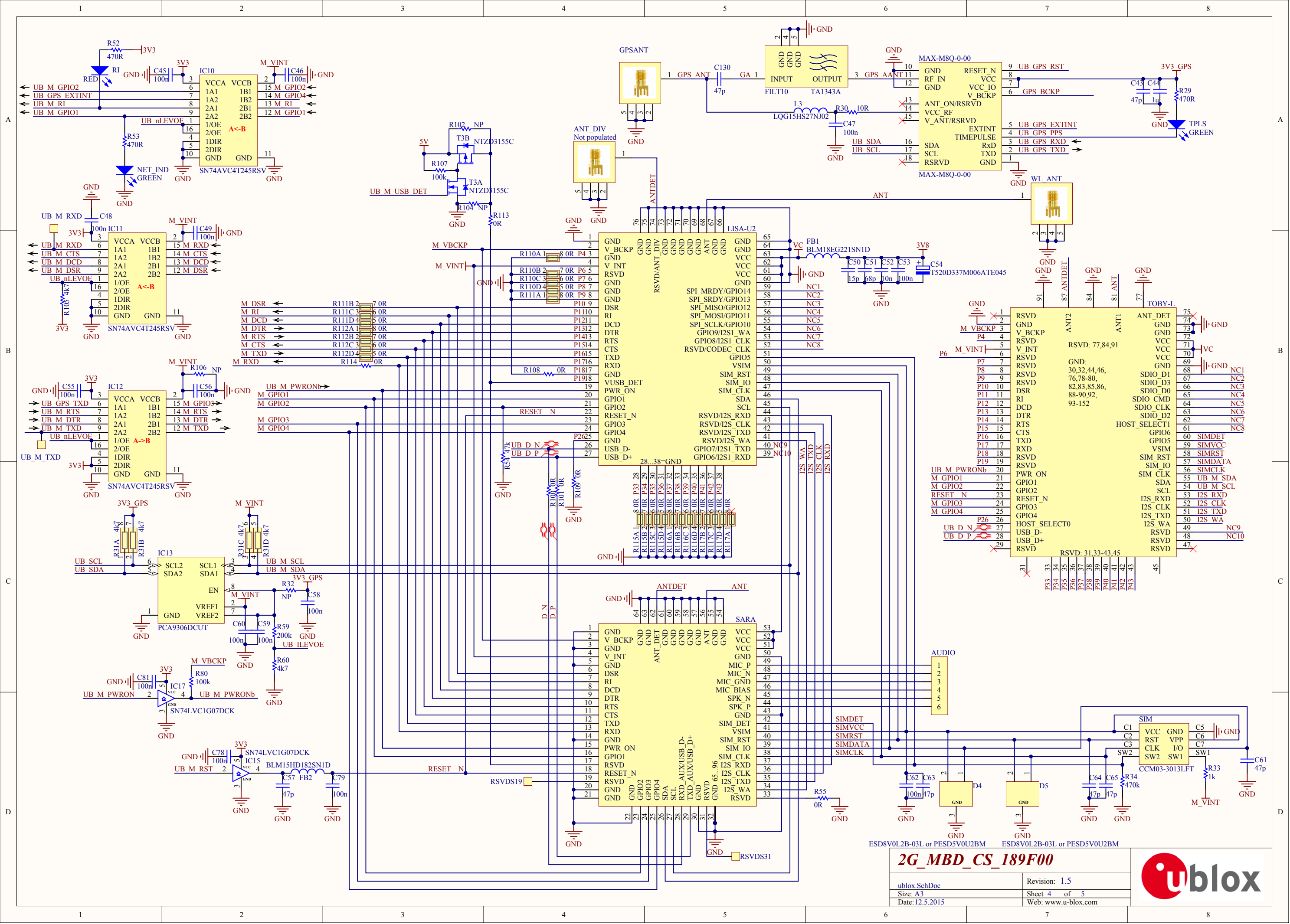
Date: 12.5.2015

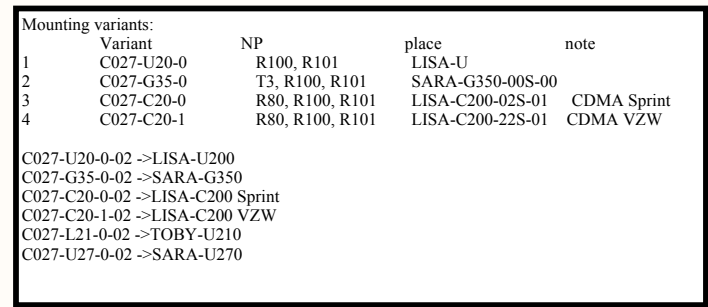
Revision: 1.5

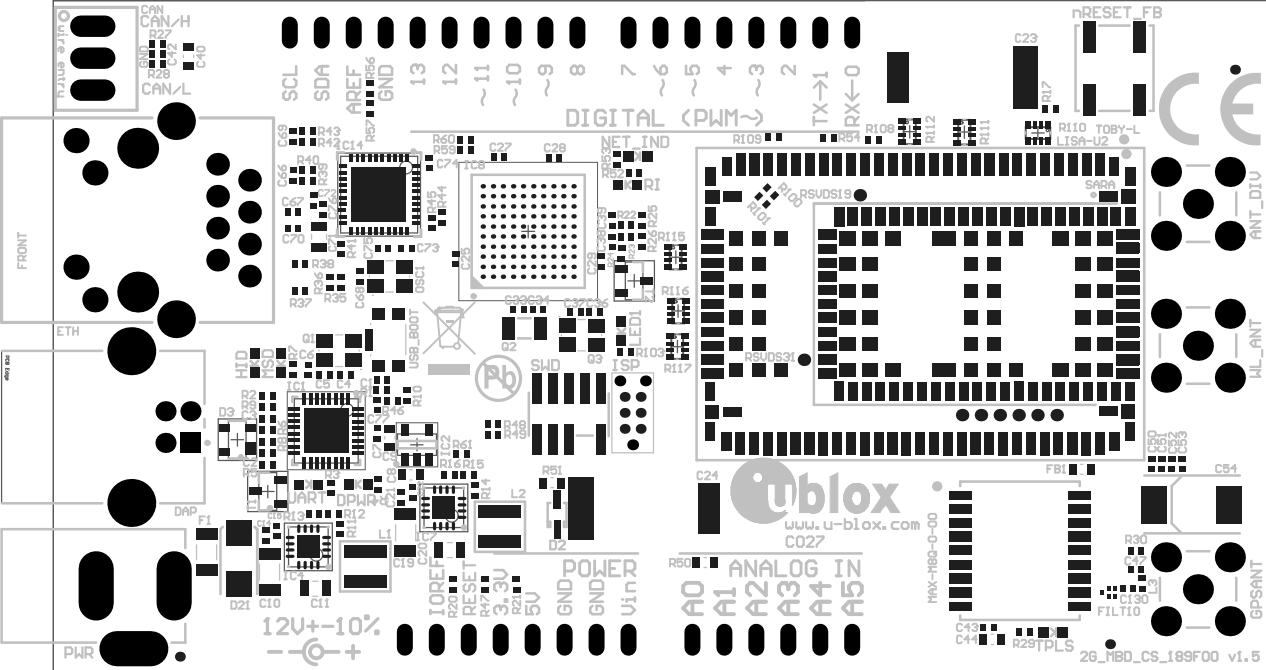
Sheet 2 of 5

Web: www.ublox.com



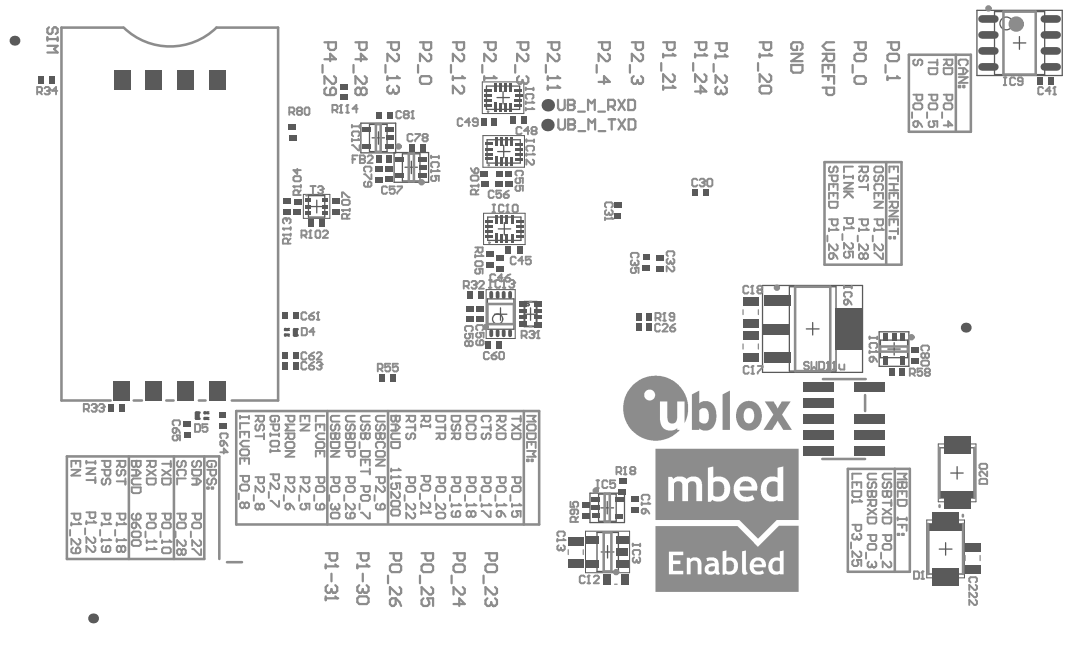






Layer Stack Up Detail for: 2G_MBD_CS_189F00.PcbDoc

Layer Name	Gerber Document	Copper Thickness	Dielectric Height	Dielectric Material	Dielectric Constant	Dielectric Type
Top Solder Mask	(.GTS)		0.0102mm	Solder Resist Blue	3.50	
Top Layer	(.GTL)	0.018mm				
Mid-Layer 1	(.G1)	0.035mm	0.281mm	FR-4	4.30	PrePreg
Mid-Layer 2	(.G2)	0.035mm	0.8mm	FR-4	4.30	Core
Bottom Layer	(.GBL)	0.018mm	0.281mm	FR-4	4.30	PrePreg
Bottom Solder Mask	(.GBS)		0.0102mm	Solder Resist Blue	3.50	



Layer Name	Gerber Document	Copper Thickness	Dielectric Height	Dielectric Material	Dielectric Constant	Dielectric Type
Top Solder Mask	(.GTS)		0.0102mm	Solder Resist Blue	3.50	
Top Layer	(.GTL)	0.018mm	0.281mm	FR-4	4.30	Prep'd
Mid-Layer 1	(.G1)	0.032mm	0.8mm	FR-4	4.30	Core
Mid-Layer 2	(.G2)	0.032mm	0.281mm	FR-4	4.30	Prep'd
Bottom Layer	(.GBL)	0.018mm				
Bottom Solder Mask	(.GBS)		0.0102mm	Solder Resist Blue	3.50	

MODEM:		GPS:	
TXD	P0_15	SDA	P0_27
RXD	P0_16	SCL	P0_28
CTS	P0_17	TXD	P0_10
DCD	P0_18	RXD	P0_11
DSR	P0_19	BAUD	9600
DTR	P0_20	RST	P1_18
RI	P0_21	PPS	P1_19
RTS	P0_22	INT	P1_22
BAUD	115200		P1_29
USBCON	P2_9		
USB_DET	P0_7		
USBIDP	P0_29		
USBIDN	P0_30		
LEUOE	P0_9		
EN	P2_5		
PARON	P2_6		
GP101	P2_7		
RST	P2_8		
ILEUOE	P0_8		

CAN:		
RD	P0_4	
TD	P0_5	
S	P0_6	

ETHERNET:		
OSCEN	P1_27	
RST	P1_28	
LINK	P1_25	
SPEED	P1_26	

MBED IF:		
USBTXD	P0_2	
USBRXD	P0_3	
LED1	P3_25	



mbed

Enabled

MODEM:

TXD	P0_15	
RXD	P0_16	
CTS	P0_17	
DCD	P0_18	
DSR	P0_19	
DTR	P0_20	
RI	P0_21	
RTS	P0_22	
BAUD	115200	
USBCON	P2_9	
USB_DET	P0_7	
USBDP	P0_29	
USBON	P0_30	
LEUOE	P0_9	
EN	P2_5	
PURON	P2_6	
GP101	P2_7	
RST	P2_8	
ILEUOE	P0_8	
	P0_23	
	P0_24	
	P0_25	
	P0_26	
	P1_30	
	P1_31	

GPS:

SDA	P0_27	
SCL	P0_28	
TXD	P0_10	
RXD	P0_11	
BAUD	9600	
RST	P1_18	
PPS	P1_19	
INT	P1_22	
EN	P1_29	

SIM



