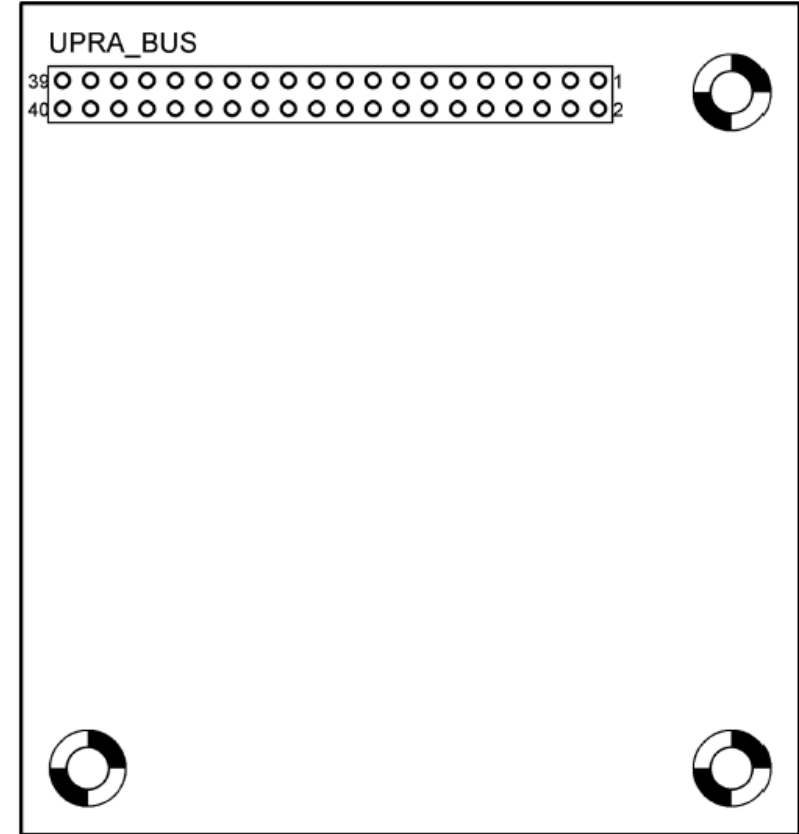


# UPRA BUS - 40pin - DIP

RESERVED	RESERVED	EPS_DIAG	DAU_DIAG	COM_DIAG	EPS:GPIO4	EPS:GPIO3	EPS:GPIO2	EPS:GPIO1	DAU:GPIO4	DAU:GPIO3	DAU:GPIO2	DAU:GPIO1	COM:GPIO5	COM:GPIO4	COM:GPIO3	COM:GPIO2	COM:GPIO1	GPS_TX	GPS_RX
39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1
40	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
RESERVED	RESERVED	PAYLOAD3+3V3	PAYLOAD2+3V3	PAYLOAD1+3V3	DAU+3V3	COM+3V3	GND	OBC:+3V3	OBC:SWO	OBC:NRST	OBC:SWDIO	GND	OBC:SWCLK	OBC:+3V3	BUS_BUSY	CANL	CANH	OBC:UART3_RX	OBC:UART3_TX

Alternative Functions			
PIN	Main Function	Alternative/Recommended Function	
2	OBC:UART3_TX	SUB MODULE: TX	Backup BUS, OBC controlled
4	OBC:UART3_RX	SUB MODULE: RX	
5	COM:GPIO1	COM:TMS/COM_SDWIO	COM program/debug port
7	COM:GPIO2	COM:TCK/SWCLK	
9	COM:GPIO3	COM:TDO/SWO	
11	COM:GPIO4	COM:TDI	
13	COM:GPIO5	COM:RESET	DAU program/debug port
15	DAU:GPIO1	DAU:SDWIO	
17	DAU:GPIO2	DAU:SWCLK	
19	DAU:GPIO3	DAU:SWO	
21	DAU:GPIO4	DAU:NRST	EPS program/debug port
23	EPS:GPIO1	EPS:SDWIO	
25	EPS:GPIO2	EPS:SWCLK	
27	EPS:GPIO3	EPS:SWO	
29	EPS:GPIO4	EPS:NRST	



# MATeF-2 PINOUT

PIN	OBC	COM	APRS	EPS-GPS
1	GPS_RX	NC	GPS_RX	GPS_RX
2	SICL_TX	SICL_RX	NC	NC
3	GPS_TX	NC	NC	GPS_TX
4	SICL_RX	SICL_TX	NC	NC
5	NC	NC	NC	NC
6	NC	NC	NC	NC
7	NC	NC	NC	NC
8	NC	NC	NC	NC
9	NC	NC	NC	NC
10	BUS_BUSY	BUS_BUSY	NC	NC
11	NC	NC	NC	NC
12	Vcc	NC	NC	3V3
13	NC	NC	NC	NC
14	NC	NC	NC	NC
15	NC	NC	NC	NC
16	GND	GND	GND	GND
17	NC	NC	NC	NC
18	NC	NC	NC	NC
19	NC	NC	NC	NC
20	NC	NC	NC	NC
21	NC	NC	NC	NC
22	NC	NC	NC	NC
23	NC	NC	NC	NC
24	Vcc	NC	NC	3V3
25	NC	NC	NC	NC
26	GND	GND	GND	GND
27	NC	NC	NC	NC
28	NC	Vcc	NC	3V3
29	NC	NC	NC	NC
30	NC	NC	NC	3V3
31	NC	NC	NC	NC
32	NC	NC	NC	NC
33	NC	NC	NC	NC
34	NC	NC	NC	NC
35	NC	NC	NC	NC
36	NC	NC	NC	NC
37	NC	NC	NC	NC
38	NC	NC	NC	NC
39	NC	NC	NC	NC
40	NC	NC	NC	NC