SPACE FACULTY

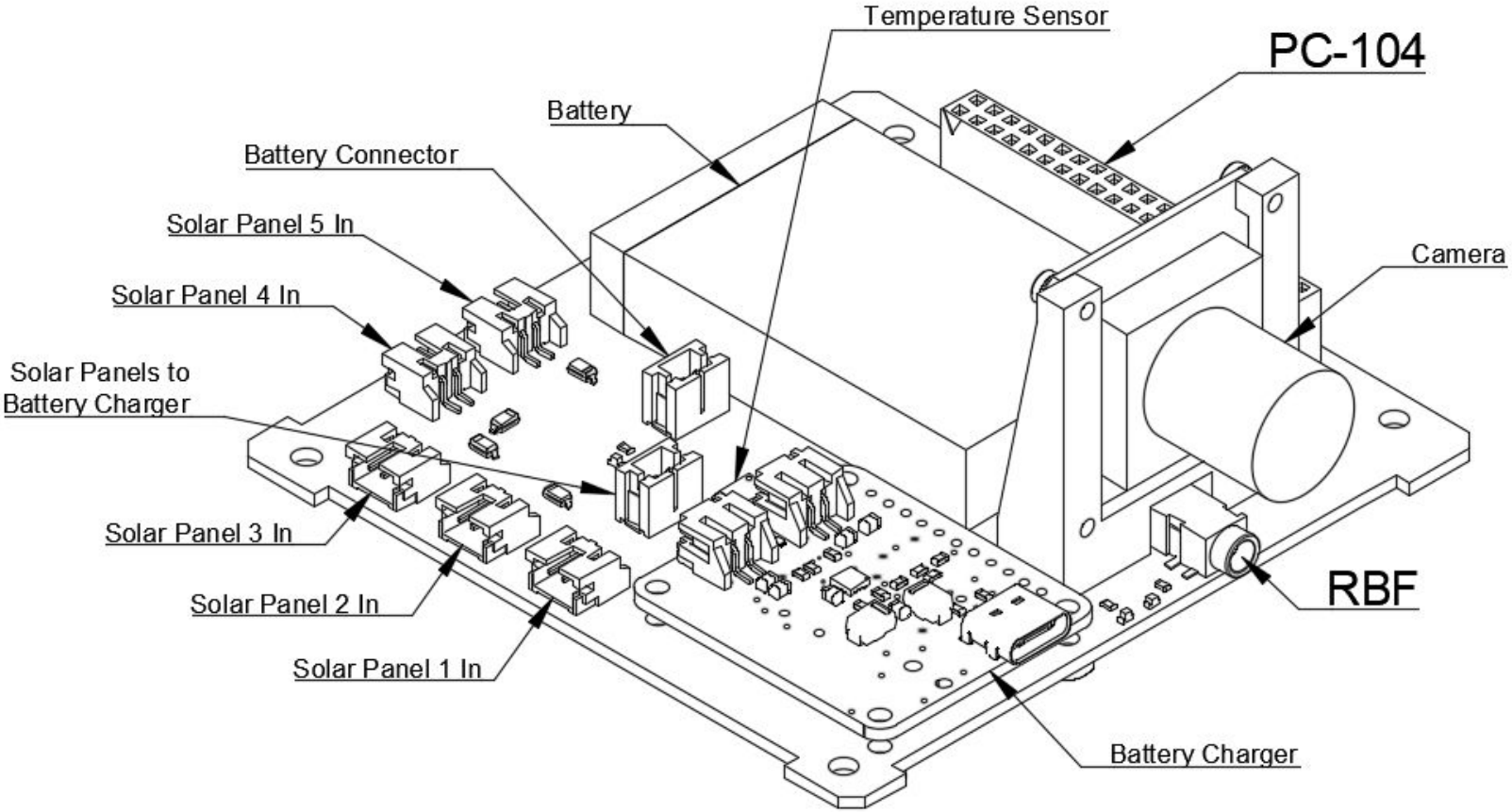
Let's learn about **satellites**!

Space mission and **satellite** design course

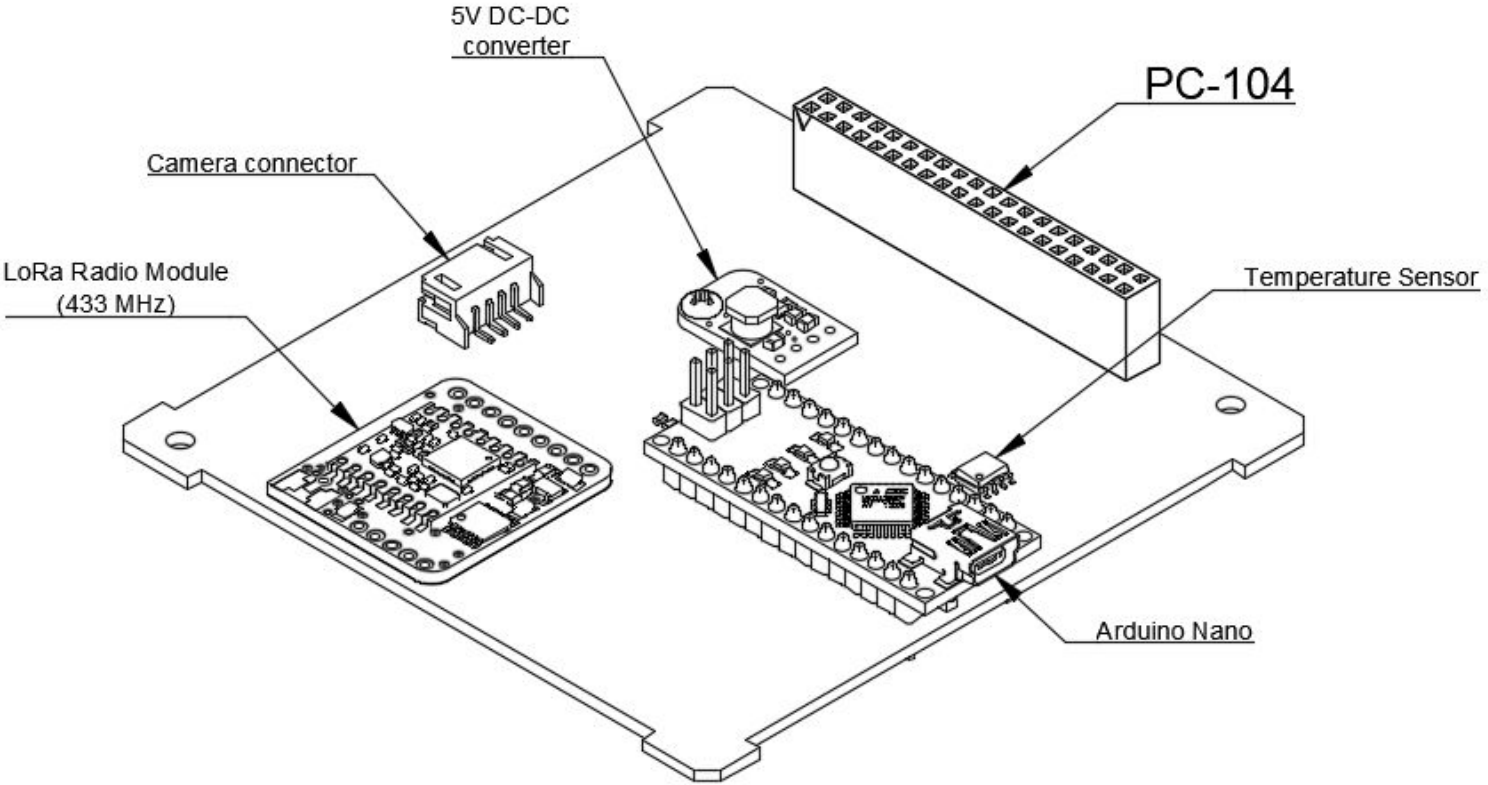
Electrical Layout

2NDSpace

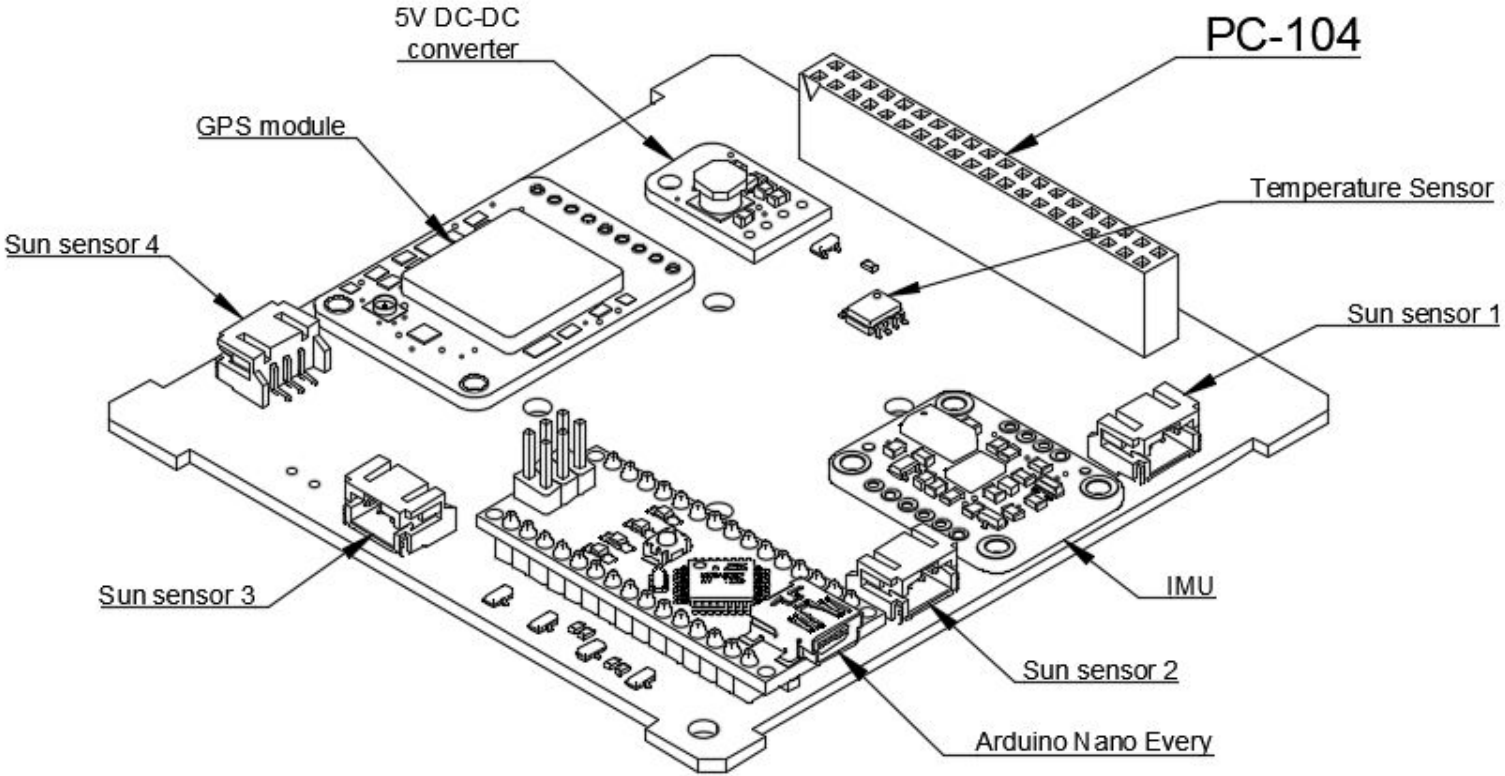
EPS Electrical Layout



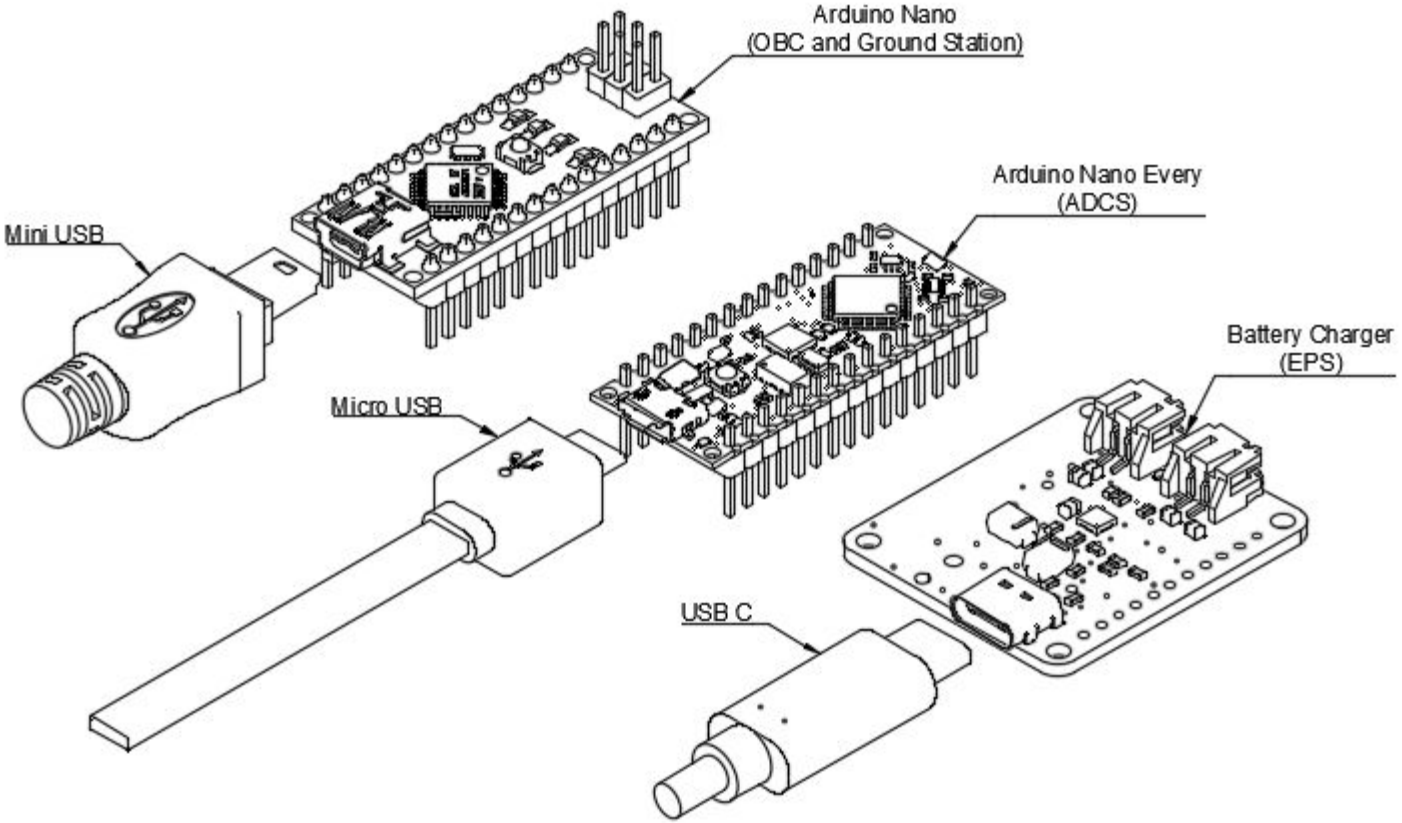
OBC Electrical Layout



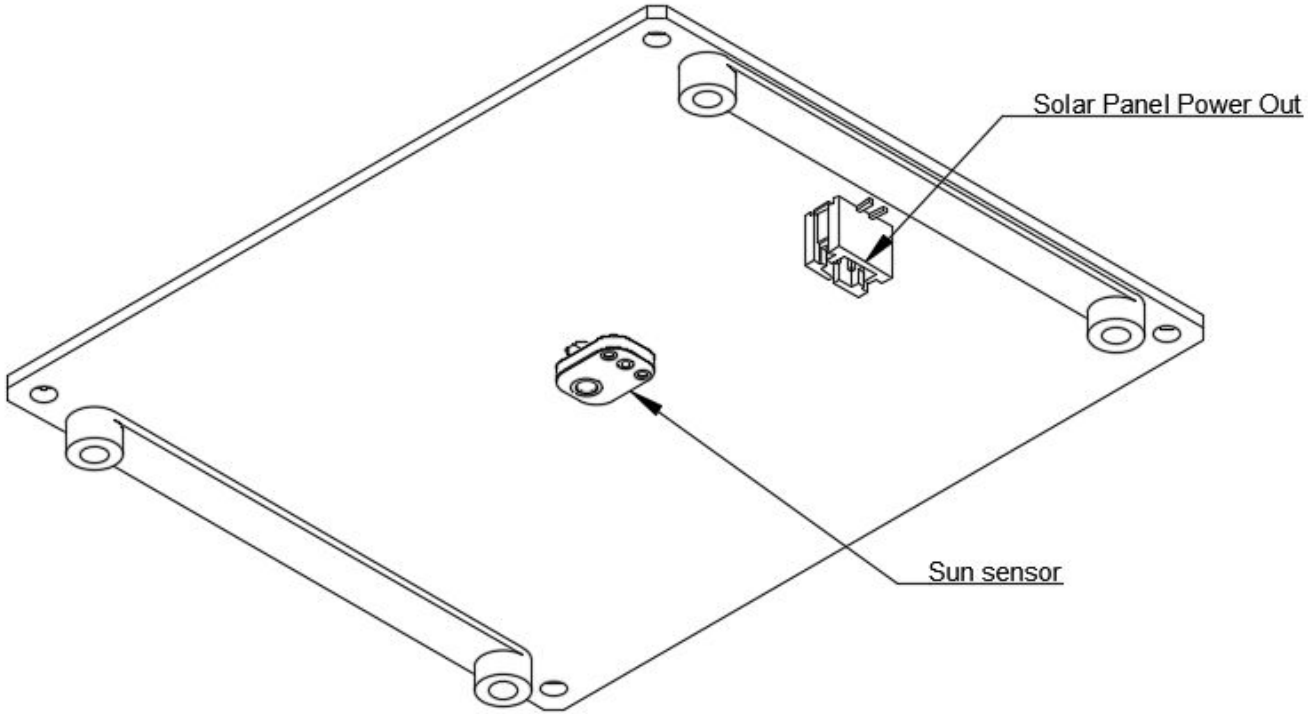
ADCS Electrical Layout



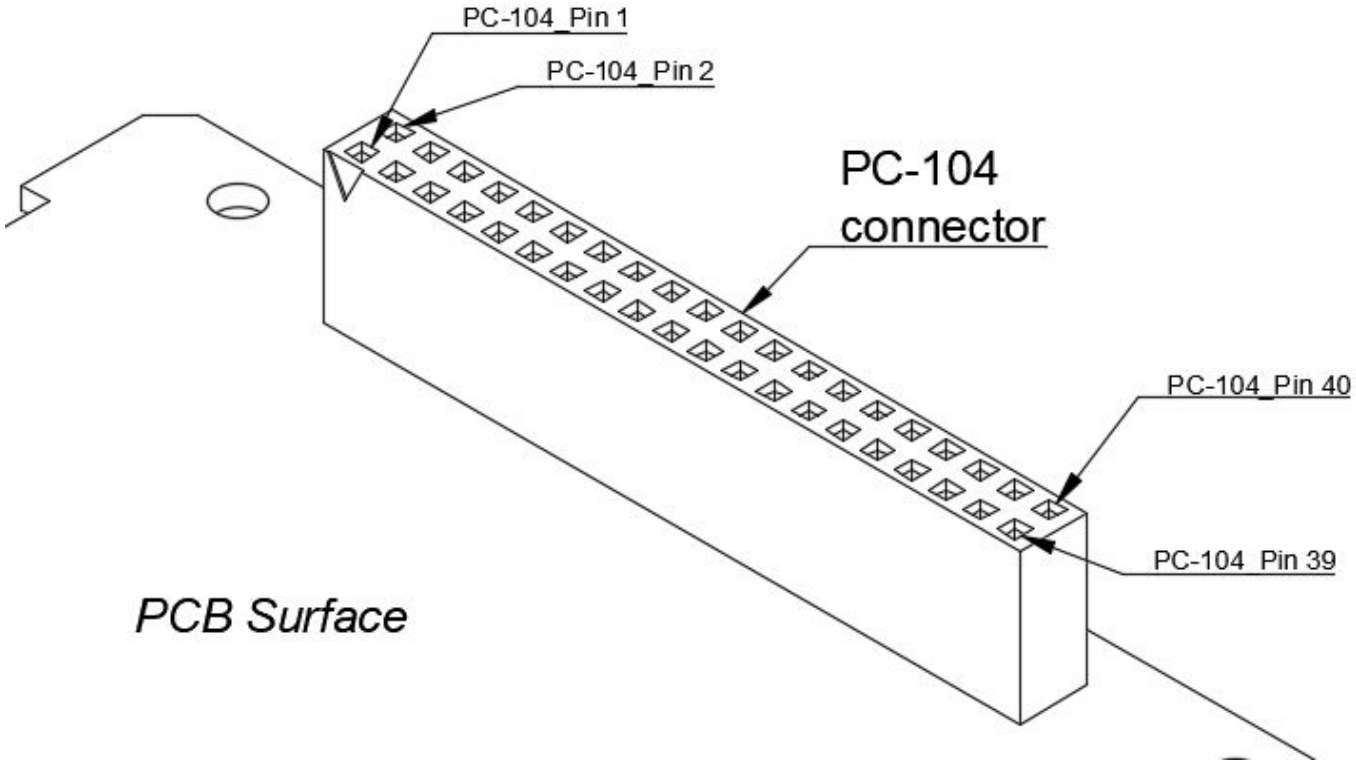
USB CONNECTIONS



Solar Panel Electrical Layout



PC-104 Pinout Scheme



PC-104 Connections

NOTES	Connections			Pin Assignment	PC-104		Pin Assignment
	EPS	OBC	ADCS				
Ground	✓	✓	✓	GND	1	2	NC
OUT of the solar charger	✓	✓	✓	VBUS	3	4	NC
Ground	✓	✓	✓	GND	5	6	NC
				NC	7	8	NC
				NC	9	10	NC
+5V bus from the OBC DC-DC converter	X	✓	X	OBC_5V	11	12	NC
				NC	13	14	NC
Battery Voltage (do not use it for power)	✓	✓	X	VBAT	15	16	NC
				NC	17	18	NC
ADCS reset signal from the OBC	X	✓	✓	ADCS_RESET	19	20	NC
				NC	21	22	NC
Temperature sensor on ADCS board	X	✓	✓	ADCS_TEMP	23	24	NC
Temperature sensor on EPS board	✓	✓	X	EPS_TEMP	25	26	NC
				NC	27	28	NC
ADCS +5V DC-DC ENABLE	X	✓	✓	ADCS_EN	29	30	NC
ADCS - OBC Serial port	X	✓	✓	RX_ADCS_TX_OBC	31	32	NC
ADCS - OBC Serial port	X	✓	✓	TX_ADCS_RX_OBC	33	34	NC
Ground	✓	✓	✓	GND	35	36	NC
OUT of the solar charger	✓	✓	✓	VBUS	37	38	NC
Ground	✓	✓	✓	GND	39	40	NC