

Project:	IFC_MultiBoard	Revision:	0.1	VIADRONE SWARM Sp. z o.o.
File:	IFC_v0_assembly	Sheet:	1	Hoża 86/410
Scale:	2:1	Total sheet:	6	00-682 Warszawa
Author:	Piotr Czapnik	Modified:	18.10.2024	contact@via-drone.com



VIADRONE

GPS1

Pin #	Name
1	+5V
2	TX
3	RX
4	SCL
5	SDA
6	Button
7	Button LED
8	GND

GPS2

Pin #	Name
1	+5V
2	TX
3	RX
4	SCL
5	SDA
6	GND

TELEM1/2

Pin #	Name
1	+5V
2	TX
3	RX
4	CTS
5	RTS
6	GND

CAN1/2

Pin #	Name
1	+5V
2	CAN_H
3	CAN_L
6	GND

TELEM3 - RS422 VARIANT

Pin #	Name
1	+5V
2	RX_P
3	RX_N
4	TX_P
5	TX_N
6	GND

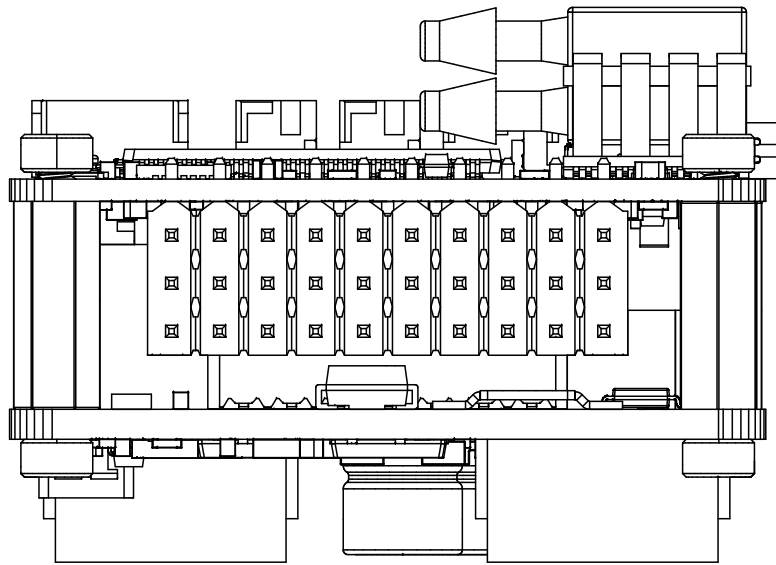
TELEM3 - UART VARIANT

Pin #	Name
1	+5V
2	TX
3	RX
4	CTS
5	RTS
6	GND

Operation without the antenna can damage the transmitter!

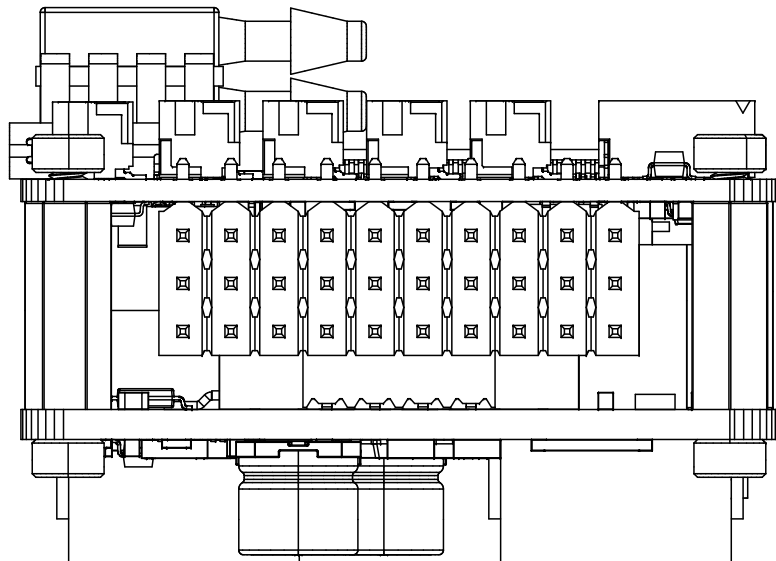
Project:	IFC_MultiBoard.P	Revision:	0.1	VIADRONE SWARM Sp. z o.o.
File:	IFC_v01_assembly	Sheet:	2	Hoża 86/410
Scale:	5:2	Total sheet:	6	00-682 Warszawa
Author:	Piotr Czapnik	Modified:	18.10.2024	contact@via-drone.com





IFC\_MCU - P9 PINOUT

SERVO 1	SERVO 2	SERVO 3	SERVO 4	SERVO 5	SERVO 6	SERVO 7	SERVO 8	SERVO 9	SERVO 10
VCC_SERVO (5V-12V)									
GND									

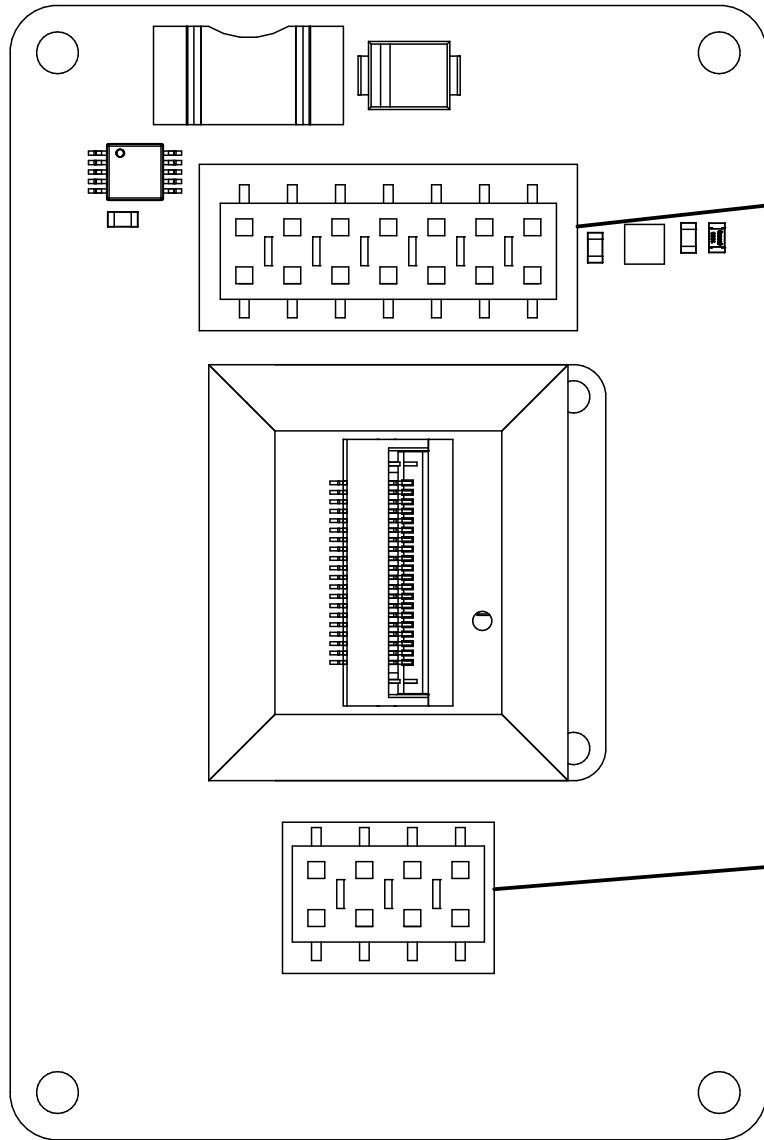


IFC\_MCU - P11 PINOUT

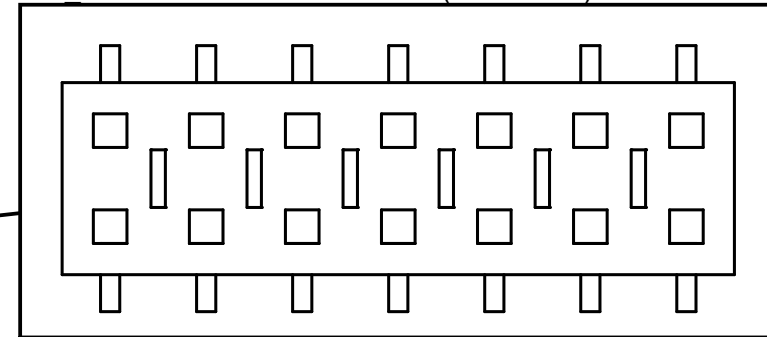
BUZZER	RSSI IN	NZR LED OUT	EXT I2C SDA	EXT I2C SCL	EXT ADC	PPM IN	OSD CAM OUT	OSD CAM_1 IN	OSD CAM_0 IN
+3V3		+5V				VCC_CAM (5V-12V)			
GND									

Project:	IFC_MultiBoard.P	Revision:	0.1	VIADRONE SWARM Sp. z o.o.
File:	IFC_v01_assembly	Sheet:	3	Hoża 86/410
Scale:	5:2	Total sheet:	6	00-682 Warszawa
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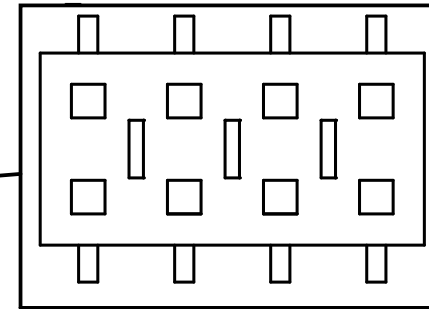
IFC POWER - P2 CONNECTOR (Scale 10:2)



IFC POWER - P2 CONNECTOR PINOUT

SERVO_PG	VCC_CAM (5V-12V)	CAM_PG	+5V	SDA	+3V3
SERVO_EN	GND	CAM_EN	GND	SCL	GND

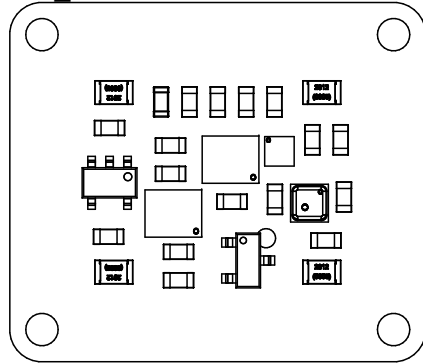
IFC POWER - P1 CONNECTOR (Scale 10:2)



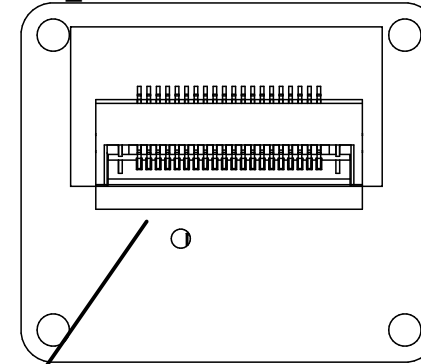
IFC\_POWER - P1 CONNECTOR PINOUT

VCC_SERVO (5V-12V)
GND

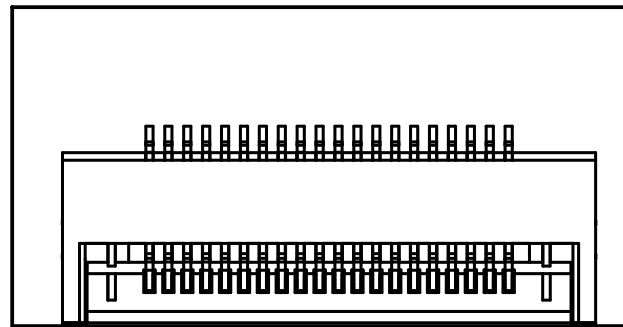
IFC\_SENSORS TOP VIEW



IFC\_SENSORS BOTTOM VIEW




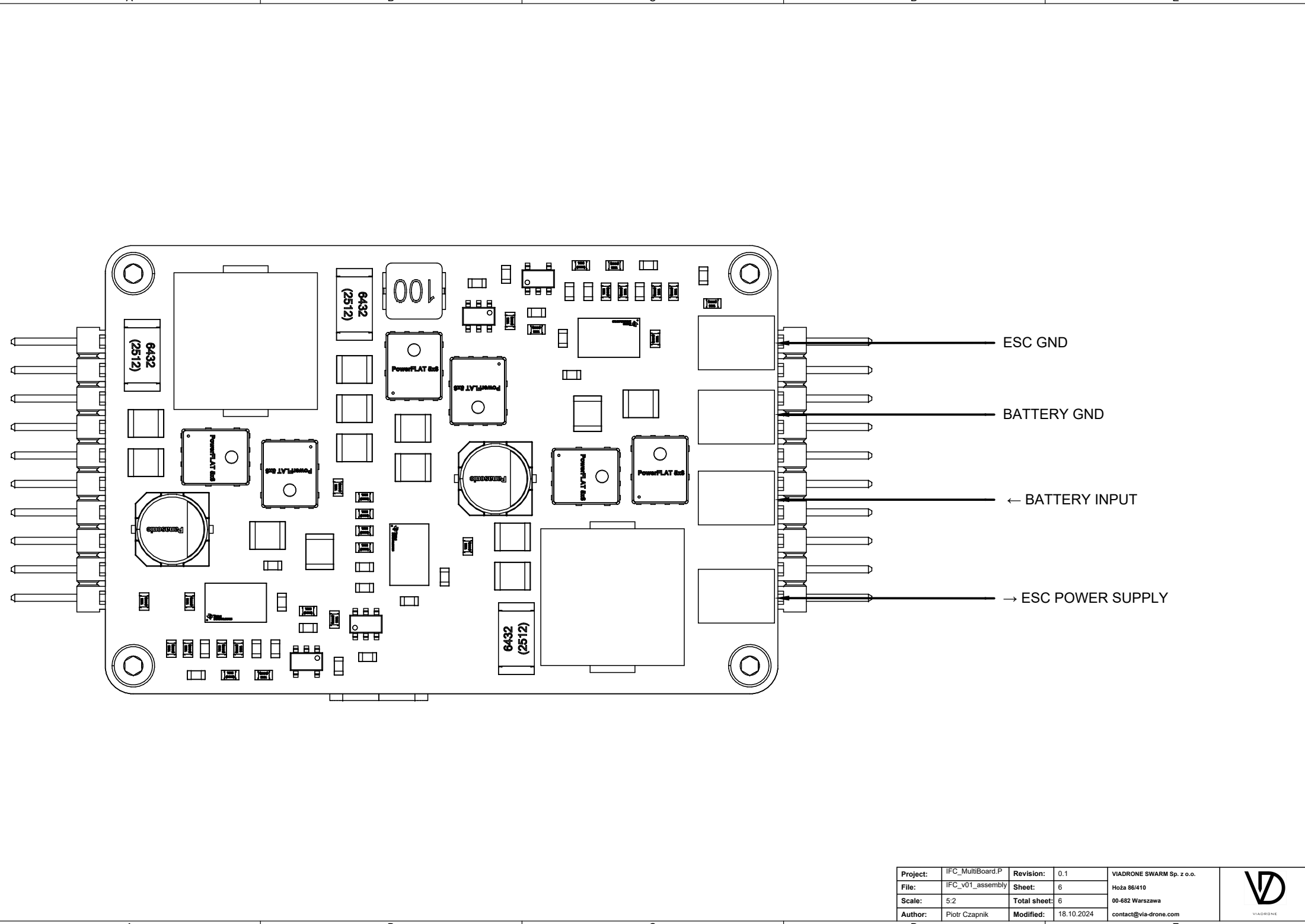
IFC\_SENSORS - P1 CONNECTOR (Scale 10:2)



IFC\_SENSORS P1 CONNECTOR PINOUT

GND	HEATER	GND	SDA	SCL	GND	SPI2 DRDY	#SPI2 CS	SPI2 SCK	SPI2 MISO	SPI2 MOSI	GND	SPI1 DRDY	#SPI1 CS	SPI1 SCK	SPI1 MISO	SPI1 MOSI	GND	+5V	+3V3
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File:	IFC_v01_assembly	Sheet:	5		
Scale:	5:2	Total sheet:	6		
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