

MCU: AT32F435RGT7, 288MHz, 384kB RAM, 1MB Flash

IMU: QMI8658A (SPI2)

Baro: BMP280 (I2C2)

OSD: AT7456E (SPI1)

Blackbox: Flash memory 128MBit (SPI1)

8x UARTs (1,2,3,4,5,6,7,8)

8x PWM outputs(including "LED" pad)

2x I2C

5x ADC (BAT1, CU1, RSSI, VESC2, CU2)

3x LEDs Статусы ПК(Yellow, Blue, Orange)

1x LED Индикатор 5.0V(Red)

USB Type-C (USB2.0)

1x JST-SH1.0\_8pin connector  
(BAT1/G/CU1/RX/M1/M2/M3/M4)

1x JST-SH1.0\_8pin connector  
(VESC2/G/CU2/RX/M5/M6/M7/M8)

Поддержка двух камер

DJI FPV OSD доступно на любом UART

#### Питание:

Vbat Input: 6~36V (2~8S LiPo)

BEC: 5V 2A cont.

BEC: 9V 2A cont.

LDO 3.3V: Max.200mA

LDO (IMU) 3.3V: Max.200mA

No Current Sensor built-in

ADC VESC2 pad supports Max. 69V (voltage divider: 1K:20K)

Потребление: 200mA@5V(Betaflight),  
150mA@5V(ArduPilot)

#### Прошивки:

BetaFlight: MITINF435N1

ArduPilot(ChiBiOS): MITINF435N1 (в разработке)

INAV: MITINF435N1 (в разработке)

#### Размеры:

Отверстия: 30,5 x 30,5мм Ø4мм (для амортизатора Ø3мм )

Размер: 37 x 37 x 7 мм

Вес: 7гр.

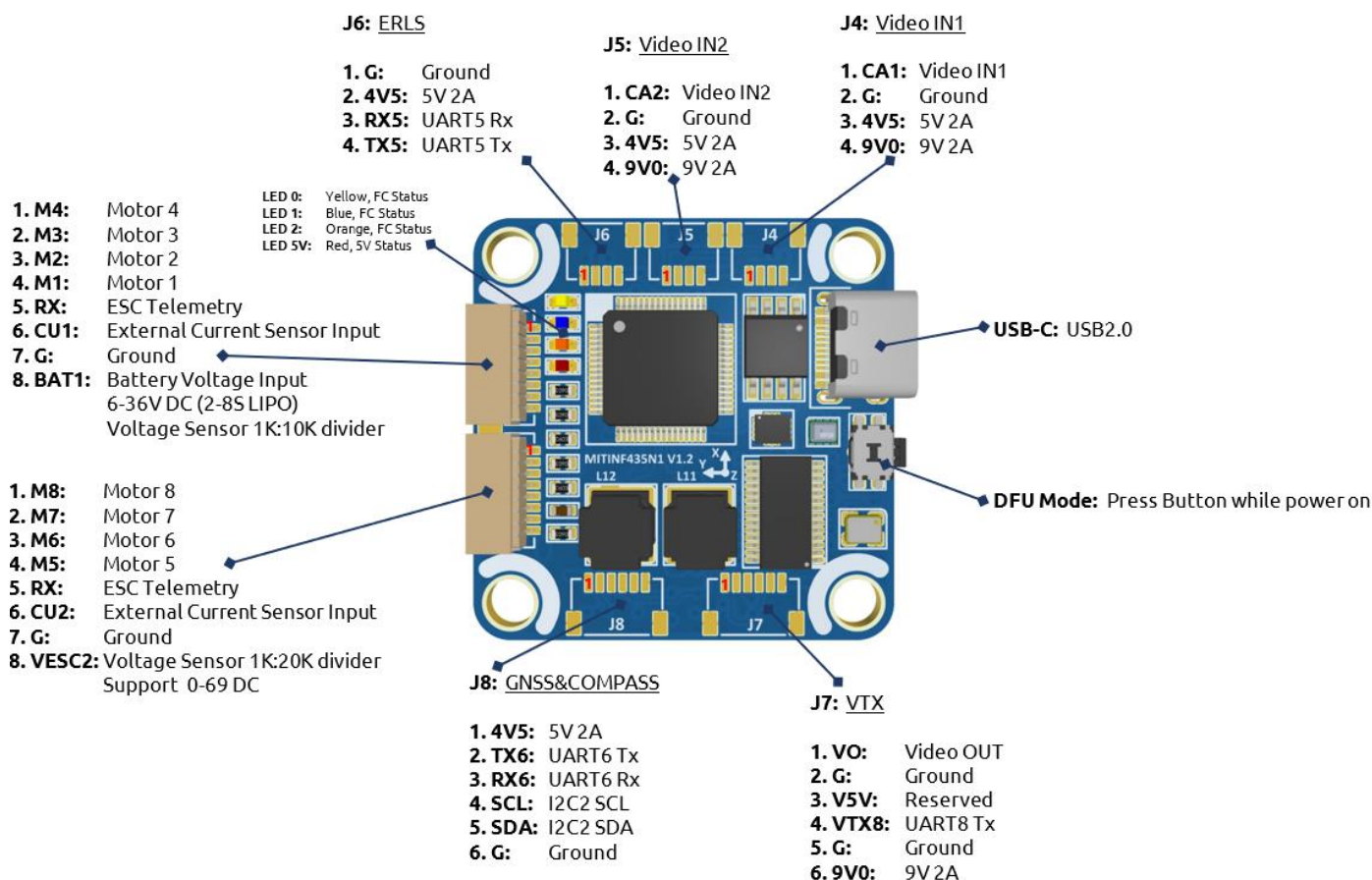
#### Состав:

1x MITINF435N1

4x Резиновый амортизатор M4 to M3

	<b>PAD</b>	<b>PORT</b>	<b>FUNC #1</b>			
<b>MOTORS</b>	M1	PA5	TMR2_CH1	FC <sup>(1)</sup>		
	M2	PA1	TMR2_CH2	FC		
	M3	PB10	TMR2_CH3	FC		
	M4	PB11	TMR2_CH4	FC		
	M5	PA6	TMR3_CH1	FC		
	M6	PA7	TMR3_CH2	FC		
	M7	PB0	TMR3_CH3	FC		
	M8	PB1	TMR3_CH4	FC		
<b>2812LED</b>	LED	PC9	TMR8_CH4	FC		
<b>UART</b>	USB	PA11/PA12		TC <sup>(1)</sup>		
	TX1 RX1	PA9/PA10	UART1	FC		
	TX2 RX2	PA2/PA3	UART2	FC		
	TX3 RX3	PC4/PC5	UART3	FC		
	TX4 RX4	PC10/PC11	UART4	FC		
	TX5 RX5	PC12/PD2	UART5	FC		
	TX6 RX6	PC6/PC7	UART6	FC		
	VTX8 VRX8	PC8/PC3	UART8	FC		
<b>I2C</b>	DA1 CL1	PB9/PB8	I2C1	FC		
	SDA SCL	PH3/PH2	I2C2	FC		
<b>ADC</b>	BAT1	PC1	0~36V		1K:10K divider	scale 110
	CU1	PC0	0~3.3V			scale external
	VESC2	PA4	0~69V		1K:20K divider	scale 210
	CU2	PA0	0~3.3V			scale external
	RSSI	PC2	0~3.3V			Analog RSSI
<b>CAMERA</b>	CA1 CA2				CAMERA INPUT	
	VO				CAMERA OUT	
<b>POWER</b>	4V5	5V 2A cont				
	9V0	9V 2A cont				
	V5V	RESERVED				

(1) TC = standard 3.3 V GPIO, FT = general 5 V-tolerant GPIO



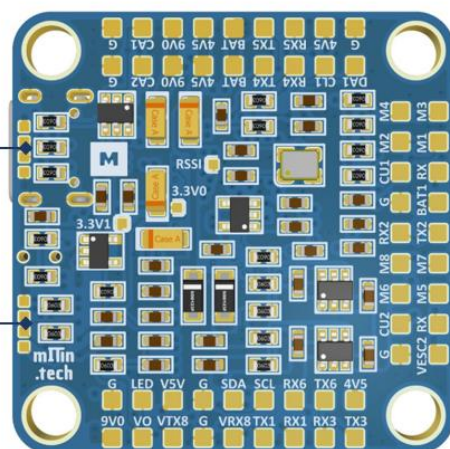
**4V5:** 5V 2A cont. Max 3A  
**9V0:** 9V 2A cont. Max 3A  
**G:** Ground

**BAT:** Battery Voltage Input  
**TX5/RX5:** UART5  
**TX4/RX4:** UART4  
**DA1/CL1:** I2C1

**CA1/CA2:** Video IN from Camera

**VBUS:** USB Voltage  
**D+:** USB Data  
**D-:** USB Data  
**G:** Ground

**G:** Ground  
**NRST:** MCU Reset  
**SWCLK:** SWD Clock  
**SWDIO:** SWD Data



**M1-M4:** Motors (Dshot)  
**CU1:** External Current Sensor Input  
**BAT1:** Battery Voltage Input 6-36V DC (2-8S LIPO) Voltage Sensor 1K:10K divider  
**RX:** ESC Telemetry (can be connect to RX2)  
**G:** Ground

**TX2/RX2:** UART2

**M5-M8:** Motors (Dshot)  
**CU2:** External Current Sensor Input  
**VESC2:** Voltage Sensor 1K:20K divider Support 0-69 DC  
**RX:** ESC Telemetry (can be connect to RX2)  
**G:** Ground

**LED:** 2812 LED Out  
**V5V:** Reserved  
**VTX8/VRX8:** UART8  
**VO:** Video OUT  
**SDA/SCL:** I2C2  
**TX6/RX6:** UART6  
**TX1/RX1:** UART1  
**TX3/RX3:** UART3