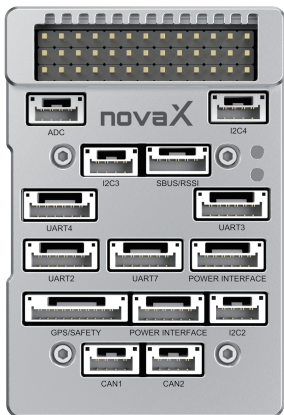
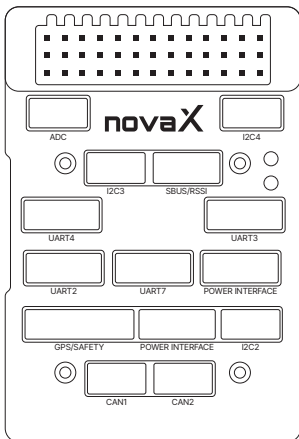


AF-F7 mini

User Guide



1. Parts List



AF-F7 mini

2. Specifications

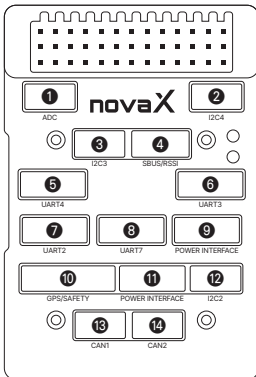
· Basic Specifications

MCU	STM32F765, ARM Cortex-M7, 216 MHz
RAM / Flash	512 KB / 2 MB
IMU	ICM-20689 (Accel/Gyro)
Secondary IMU	ICM-20602, BMI055
Magnetometer	IST8310
Barometer	MS5611
Operating Voltage	4.75 – 5.5 V (Rated 5 V)
USB Input	4.75 – 5.25 V
Servo Rail	Max. 36 V (No Internal Regulator)
PWM Output	8 CH
PWM / Capture Input	3 CH
RC Input	S.Bus, PPM, DSM/DSM2/DSMX, CPPM
RSSI Input	Analog / PWM
UART	4 Port
I2C	3 Port
CAN	2 Port
ADC	VBat/Current + Aux Analog Input 2Ch
Size / Weight	64.2 × 42.3 × 14.6 mm / 39.7 g
Operating Temp	-20 ~ +85 °C
Supported F/W	ArduPilot, PX4

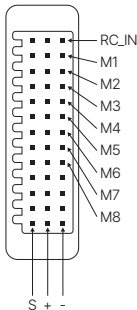
3. Pinouts

• Pinmap

Pin Arrangement



Motor

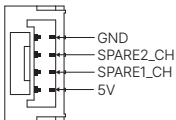


- ① ADC ② I2C4 ③ I2C3 ④ SBUS/RSSI ⑤ UART4
⑥ UART3 ⑦ UART2 ⑧ UART7 ⑨ POWER INTERFACE
⑩ GPS/SAFETY ⑪ POWER INTERFACE ⑫ I2C2
⑬ CAN1 ⑭ CAN2

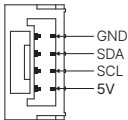
3. Pinouts

• Pin Assignment

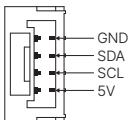
① ADC



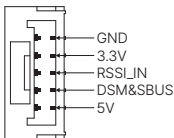
② I2C4



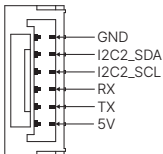
③ I2C3



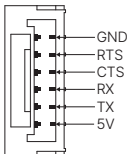
④ SBUS/RSSI



⑤ UART4



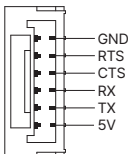
⑥ UART3



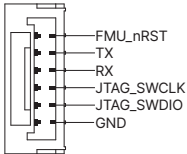
3. Pinouts

• Pin Assignment

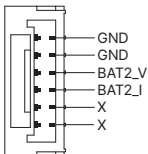
⑦ UART2



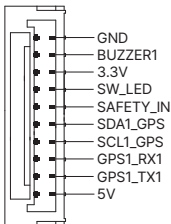
⑧ UART7



⑨ POWER INTERFACE



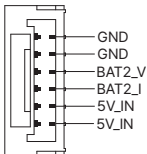
⑩ GPS/SAFETY



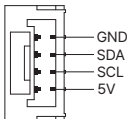
3. Pinouts

• Pin Assignment

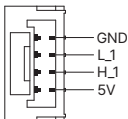
⑪ POWER INTERFACE



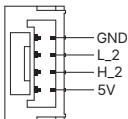
⑫ I2C2



⑬ CAN1



⑭ CAN2



novaX