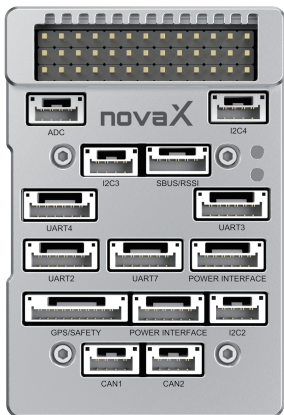
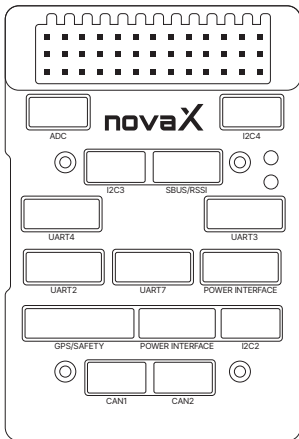


AF-F7 mini

User Guide



1. 각부 명칭



AF-F7 mini

2. 스펙

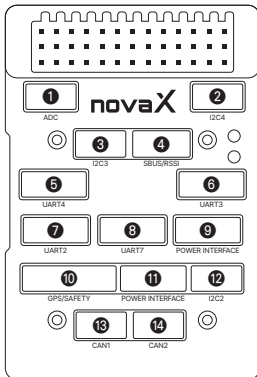
· 기본 사양

MCU	STM32F765, ARM Cortex-M7, 216 MHz
RAM / Flash	512 KB / 2 MB
IMU	ICM-20689 (가속도/자이로)
보조 IMU	ICM-20602, BMI055
나침반	IST8310
기압계	MS5611
동작 전압	4.75 – 5.5 V (정격 5 V)
USB 입력	4.75 – 5.25 V
서보 레일	최대 36 V (내부 레귤레이터 없음)
PWM 출력	8 채널
PWM / 캡처 입력	3 채널
RC 입력	S.Bus, PPM, DSM/DSM2/DSMX, CPPM
RSSI 입력	아날로그 / PWM
UART	4 포트
I2C	3 포트
CAN	2 포트
ADC	배터리 전압/전류 + 보조 아날로그 입력 2채널
크기 / 무게	64.2 × 42.3 × 14.6 mm / 39.7 g
동작 온도	-20 ~ +85 °C
지원 펌웨어	ArduPilot, PX4

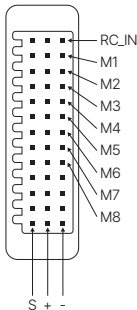
3. 핀맵

· 핀맵

커넥터 배치



모터

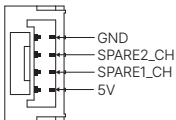


- ① ADC ② I2C4 ③ I2C3 ④ SBUS/RSSI ⑤ UART4
 ⑥ UART3 ⑦ UART2 ⑧ UART7 ⑨ POWER INTERFACE
 ⑩ GPS/SAFETY ⑪ POWER INTERFACE ⑫ I2C2
 ⑬ CAN1 ⑭ CAN2

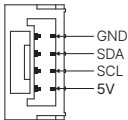
3. 핀맵

· 핀 할당

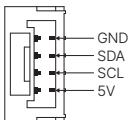
① ADC



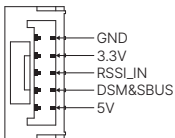
② I2C4



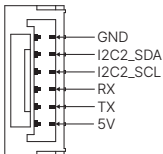
③ I2C3



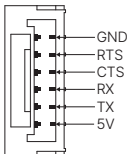
④ SBUS/RSSI



⑤ UART4



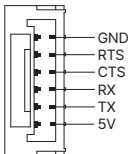
⑥ UART3



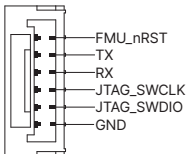
3. 핀맵

· 핀 할당

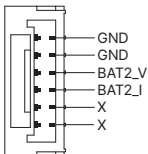
⑦ UART2



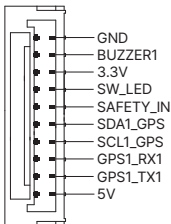
⑧ UART7



⑨ POWER INTERFACE



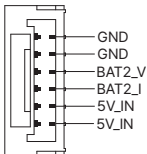
⑩ GPS/SAFETY



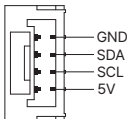
3. 핀맵

· 핀 할당

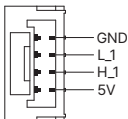
⑪ POWER INTERFACE



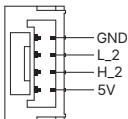
⑫ I2C2



⑬ CAN1



⑭ CAN2



novaX