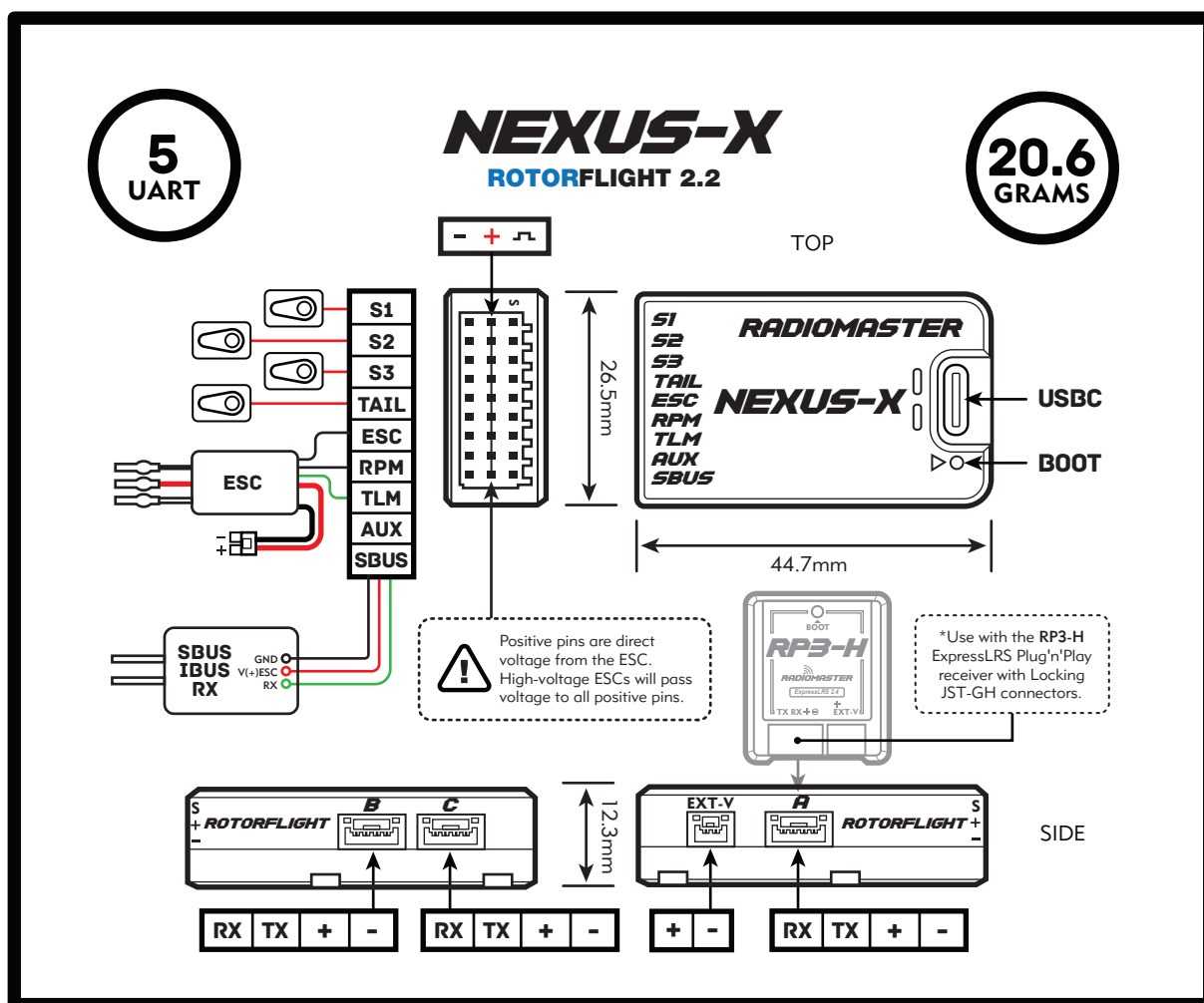




The Nexus-X flight controller is specifically designed for Rotorflight 2.2 and provides outstanding compatibility, performance, and ease of use.

Powered by the STM32F722 MCU and equipped with the highly accurate ICM42688P 6-axis MEMS motion tracker, the Nexus-X provides precise control, seamless stabilization, and outstanding flight performance. Its integrated Black Box with 256MB of flash memory offers ample space for flight logging, enabling easy tuning and performance optimization.

Designed for versatility and future-proofing, the Nexus-X features multi-function UART ports for seamless integration with various receivers and peripherals. It supports Plug'n'Play solder-free RP3-H ExpressLRS receivers and traditional S.BUS and DSM systems, ensuring flexible connectivity.

Encased in a robust CNC-machined aluminum shell, the Nexus-X stays cool under demanding conditions while protecting its electronics. Its lightweight, compact design fits effortlessly into helicopter builds from 250-sized models to 700-class machines.

The Nexus-X is the ultimate flight controller for pilots who want a clean, reliable, high-performance Rotorflight experience.

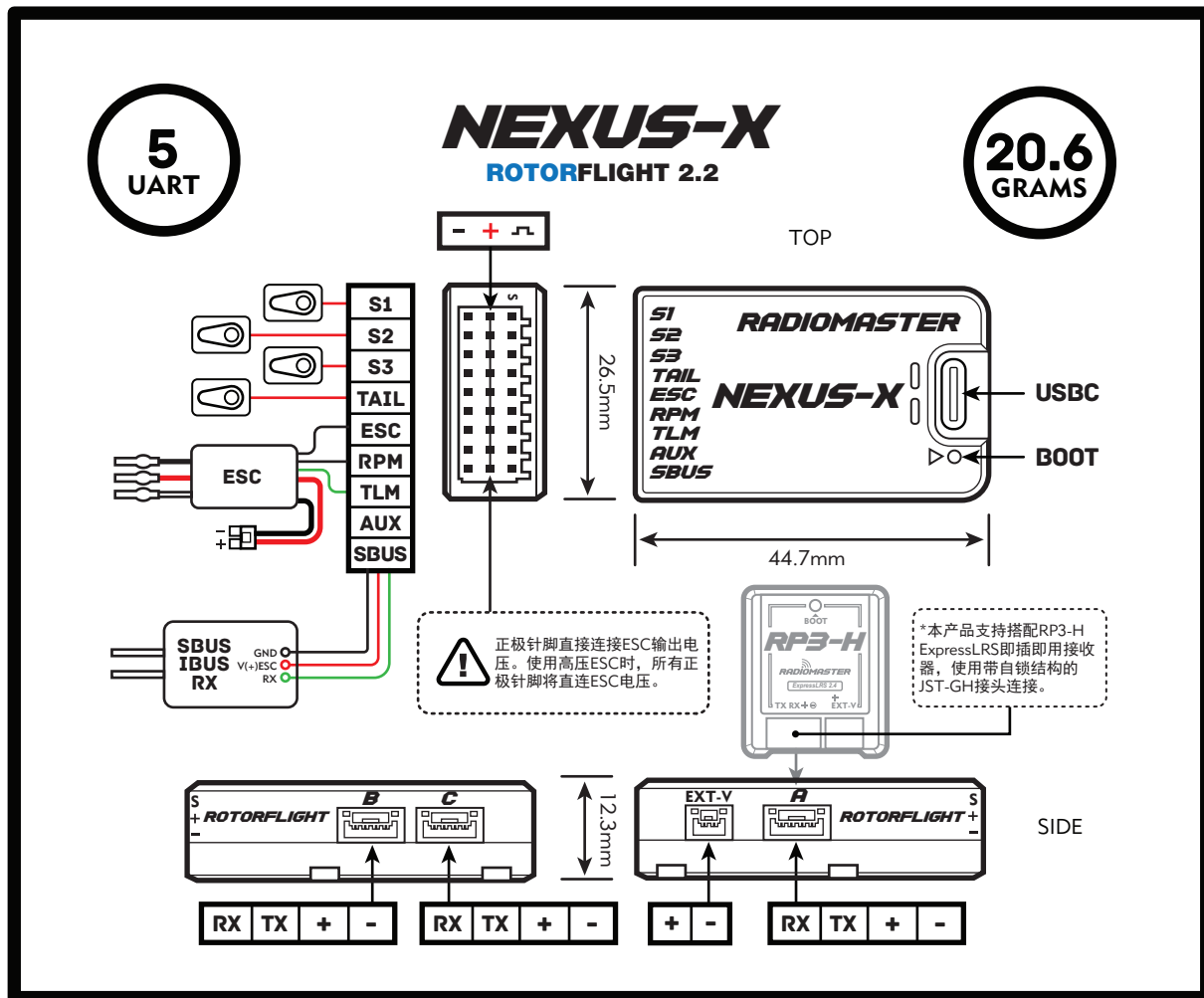
For more information, please visit the website:
<https://www.radiomasterrc.com>,
<https://www.rotorflight.org/docs/Tutorial-Quickstart/Introduction>

SPECIFICATIONS

• Item:	NEXUS-X Helicopter Flight Controller
• Firmware:	Rotorflight 2.2
• MCU:	STM32F722RET6
• Gyro (IMU):	ICM42688P
• Flash Memory:	256Mb (W25N02KVZEIR)
• Barometer:	SPL06-001
• UART (5):	S.BUS[UART1], TELEM[UART2], PORT-A[UART4], PORT-B[UART6], PORT-C[UART3]
• Servo (4):	S1, S2, S3, TAIL
• RPM Sensor (1):	(From ESC Frequency Sensor)
• AUX:	1
• Ext voltage input (tele):	3.6-70v
• Receiver Support:	CRSF, ELRS, GHOST, S.BUS, SUMD, IBUS, XBUS, EXBUS, PPM, MSP
• Voltage Supply (DC):	5 - 16V
• A-B-C Power Output:	5V @1.5A
• Telemetry:	S.BUS, HoTT, S.Port, MSP, EDGETX, ELRS
• ESC:	PWM, Oneshot, Multishot, Dshot
• Support Tail ESC:	760us / 1520us Servo
• Support Tail Motor:	Yes
• Dimensions:	44.70*26.50*12.30mm
• Weight:	20.6g

INCLUDES

- 1x NEXUS-X Helicopter Flight Controller
- 3x JST-GH 4 Wire pigtail cables
- 1x JST-GH to Servo Plug (dupont 3 pin connector)
- 1x Ultra light-weight and flexible USB-C extender
- 1x Type C extension cable
- 3x 3M double-sided mounting tape
- 2x Heat shrink tubing



Nexus-X 飞行控制器专为 Rotorflight 2.2 设计，具备出色的兼容性、卓越的性能和易于使用的特点。

该控制器采用 STM32F722 微控制器，并配备高精度 ICM42688P 六轴 MEMS 运动传感器，能够实现精准控制、顺畅稳定的飞行姿态以及卓越的飞行性能。内置 256MB 闪存的黑匣子可用于飞行日志记录，为参数微调与性能优化提供充足空间。

Nexus-X 拥有多功能 UART 接口，可轻松集成各种接收机和外设，具备良好的扩展性与兼容性。支持即插即用、免焊接的 RP3-H ExpressLRS 接收机，并兼容传统的 S.BUS系统，确保连接方式灵活多样。

CNC 加工铝合金外壳坚固耐用，在高负载环境下可保持元件低温运行，并有效保护内部电子器件。其轻量化紧凑型设计可轻松适配 250 到 700 级别各类直升机。

Nexus-X 是追求简洁、可靠、高性能 Rotorflight 飞行体验的飞手的不二之选。

如需获取更多信息，请访问以下网站：

- <https://www.radiomasterrc.com>
- <https://www.rotorflight.org/docs/Tutorial-Quickstart/Introduction>

规格参数

• 产品名称：	Nexus-X 直升机飞行控制器
• 固件：	Rotorflight 2.2
• 主控芯片 (MCU)：	STM32F722RET6
• 陀螺仪/惯性单元 (IMU)：	ICM42688P
• 闪存 (黑匣子)：	256Mb (W25N02KVZE1R)
• 气压计：	SPL06-001
• UART 接口 (共5个)：	S.BUS[UART1], TELEM[UART2], PORT-A[UART4], PORT-B[UART6], PORT-C[UART3]
• 舵机接口 (共4路)：	S1, S2, S3, 尾舵
• 转速传感器 (RPM)：	1 路 (来自 ESC 频率传感器)
• AUX：	1
• 外部电压输入 (遥测)：	3.6-70V
• 支持的接收机协议：	CRSF, ELRS, GHOST, S.BUS, SUMD, IBUS, XBUS, EXBUS, PPM, MSP
• 供电电压 (DC)：	5 - 16V
• A-B-C 串口电源输出：	5V @1.5A
• 遥测支持：	S.BUS, HoTT, S.Port, MSP, EDGETX, ELRS
• 支持的电调协议 (ESC)：	PWM, Oneshot, Multishot, Dshot
• 支持尾舵电调：	760us / 1520us Servo
• 支持尾舵电机：	Yes
• 尺寸：	44.70*26.50*12.30mm
• 重量：	20.6g

包装清单

- 1 × Nexus-X 直升机飞行控制器
- 3 × JST-GH4 尾线
- 1 × JST-GH 转 3 针舵机线 (杜邦头)
- 1 × 超轻便灵活的 USB-C 延长线
- 1 × Type-C 数据线
- 3 × 3M 双面安装胶带
- 2 × 热缩管