RadioLink PIX6 Flight Controller User Guide

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PIX6

Quick Start Guide

Thank you for choosing RadioLink product. This product is not a toy and is not suitable for children under the age of 14 . Adults should keep the product out of the reach of children and exercise caution when operating this product in the presence of children.

Note: In order to fully know about the usage of PIX6 and ensure flight safety, please download the detailed instruction manual from **https://www.radiolink.com/pix6_manual**

Read carefully and set the device as instructed. If there is any question, please send messages/ leave comments on Facebook and YouTube or send mails to **after_service@radiolink.com.cn**

* Adaptable Models PIX6 is daptable to multicopter, airplane, Mower, helicopter, car, boat, submarine, radartracker, robot.

*Adaptable Mission Planner PIX6 can set parameters by RadioLink Mission Planner, Ardupilot Mission Planner, and QGC Mission Planner.

*Adaptable Firmware PIX6 can upgrade the firmware by both RadioLink and Ardupilot Mission Planner. Download PIX6 firmware from: **https://www.radiolink.com/pix6_firmware**

Note: Make sure the power module is insulated from the metal frame or the carbon fiber frame.

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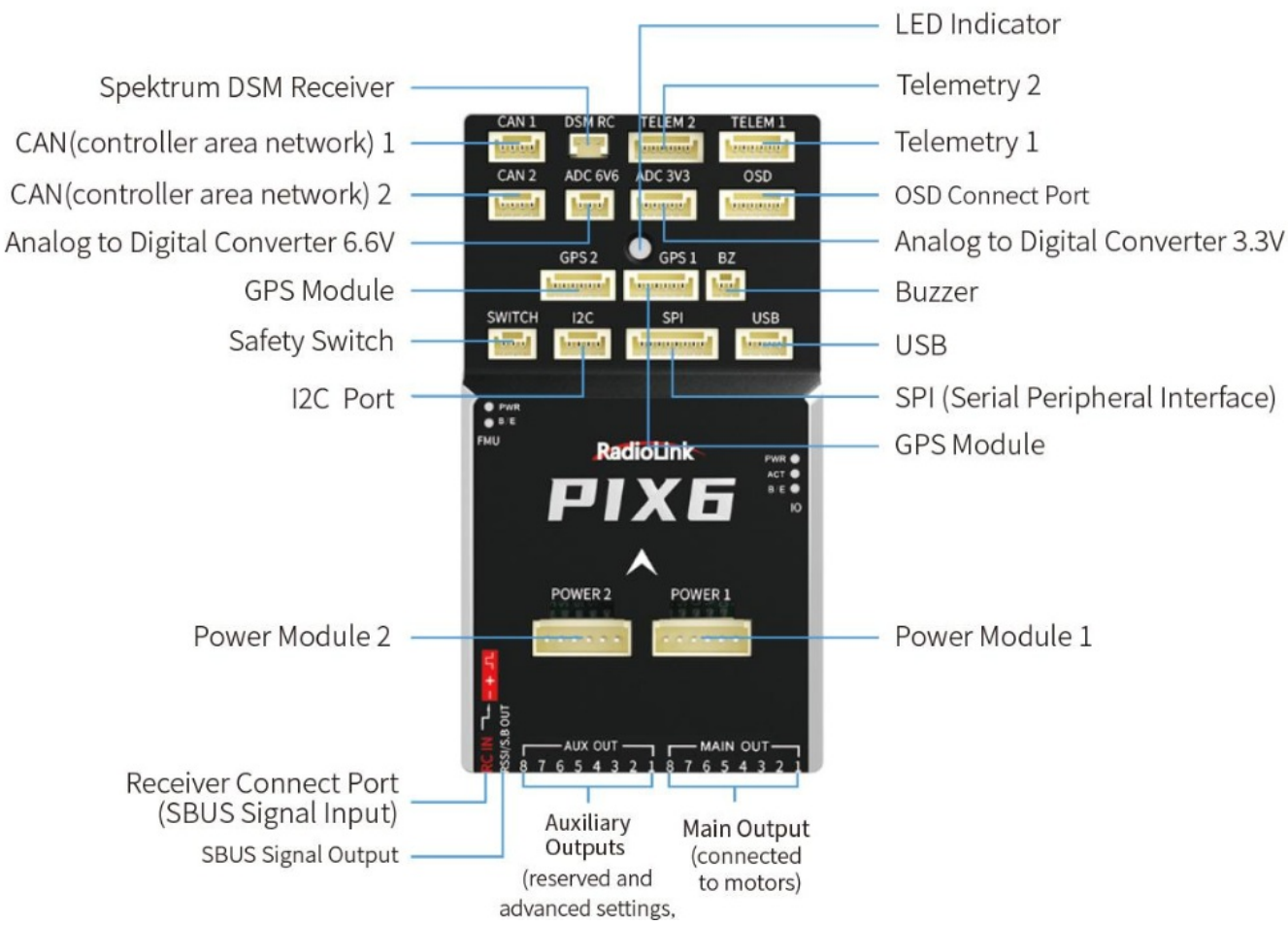
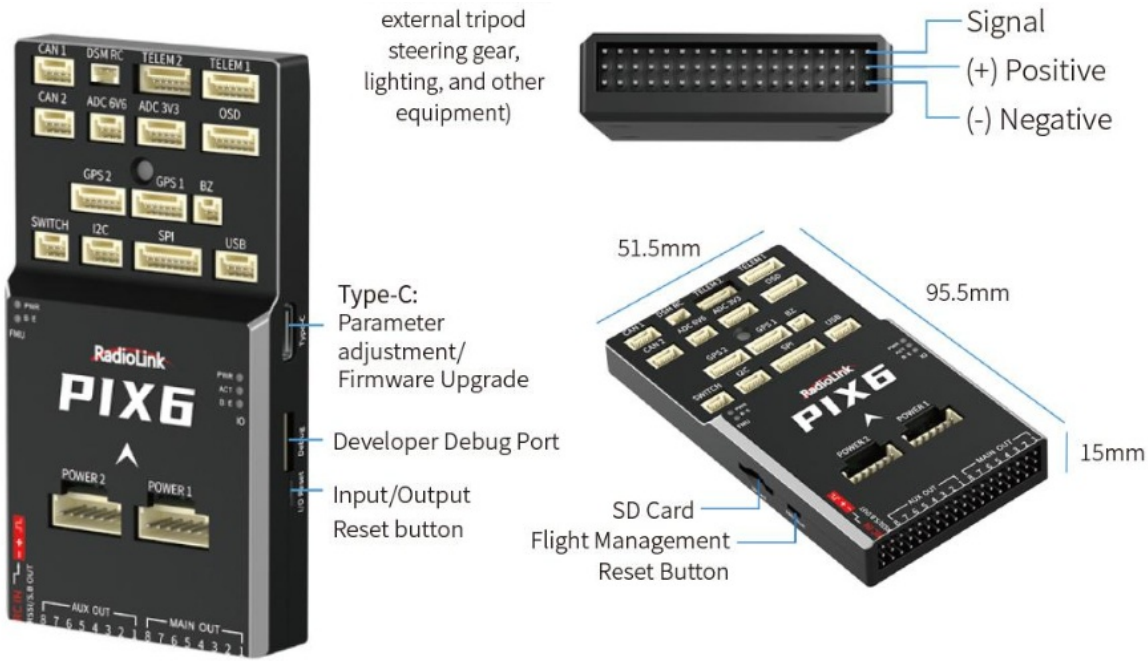
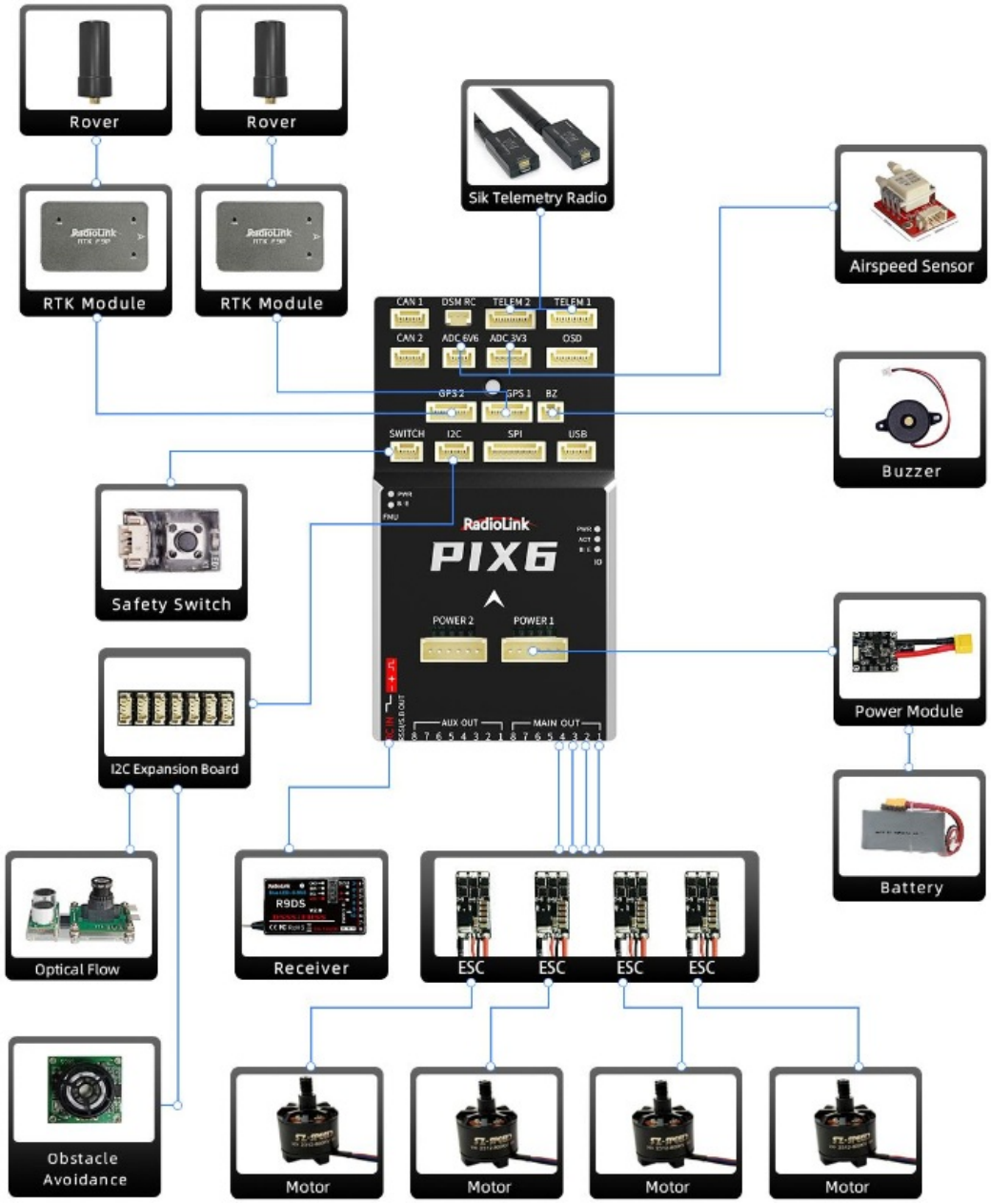
PIX6 Connectors





Connection Diagram of PIX6



Packing List

Flight Controller ×1

Buzzer ×1

Safety Switch ×1

Power Module (2-12S) ×1

4G TF (MicroSD) Card ×1

CAN1/2 Port Connect Cable ×2

DSM RC Port Connect Cable ×1

TELEM1/2 Port Connect Cable ×2

ADC 6V6 Port Connect Cable ×1

ADC 3V3 Port Connect Cable ×1

OSD Port Connect Cable ×1

GPS1/2 Port Connect Cable ×2

SWITCH Port Connect Cable ×1

I2C Port Connect Cable ×1

SPI Port Connect Cable ×1

POWER1 Port Connect Cable ×1

POWER2 Port Connect Cable ×1

Debug Port Connect Cable ×1

Receiver Connect Cable ×1

USB Port Connect Cable ×1

Type-C Cable ×1

Double-sided Adhesive Tape ×2

Quick Start Guide ×1

Packaging Color Box ×1

Specifications

Hardware	Main Processor	STM32F765VIT6
	Co-processor	STM32F100
Sensor	Gyro & Accelerometer	BMI088，ICM-42688
	E-compass	IST8310
	Barometer	SPL06
	RAM Memory	512KB
	Flash Memory	2MB
	FRAM	32KB, FM25V02A
Connector	Channel Output	16 Channels Output(Main Outputs:8 channel; Auxiliary Outputs: 8 channel)
	Connector	POWER1,2 Port: HY-6P; DSM RC Port: XH1.25-3P; Debug Port: 1.0-8P; Other Port: GH1.25
	CAN Port	2
	SPK/DSM	1
	Mavlink UART	2
	ADC	3.3V*1&6.6V*1
	OSD	1
	GPS UART/ I2C Port	2
	Buzzer	1
	Safety Switch	1
	SPI Port	1
	USB Port	1
	POWER Port	2,Power1: voltage and current monitor inputs(Analog) Power2: SMBUS/I2C Power Module Inputs(I2C)
	Type-C Port	1
	SD Card Port	1

	FMU Reset	1
	Debug Port	1
	I/O Reset Button	1
	Signal (RC In)	PPM/SBUS
	Video Transmission	HD Digital and Analog Video Transmission Supported
	RSSI Signal Input	PWM/3.3V
	RSSI Signal Output	Support
	OneShot/DShot	Support
	OSD Module	Support, OSD Module Integrated
	ESC Protocol	PWM/OneShot/DShot
	Neopix Led Connection	Support
	RTK	Support
Power Module Specifications	Weight	24.5g (0.86oz) without wire
	Input Voltage	2-12S
	Maximum Detection Current	90A
	Output Voltage(BEC)	5.3V±0.2V
	Output Current(BEC)	2A
	Single ESC Maximum Detection Current	22.5A
Adaptable Firmware	Ardupilot	
Adaptable Models	Fixed wing/2-8 copter/Helicopter/VTOL/Car/Boat/Robot/Mower	
	Dimension	95.5*51.5*15mm
	Weight	50g(without wires)
	USB Voltage	5V±0.3V
	Operating Temperature	-30~85°C

Documents / Resources

	[RadioLink PIX6 Flight Controller] [pdf] User Guide PIX6, PIX6 Flight Controller, Flight Controller, Controller

References

- User Manual