Features:

1. Supports automatic protocol conversion across multiple standards for enhanced compatibility.

2. Wide voltage input range (5-18V) ensures stable operation across diverse power supply environments.

3. Compatible with high-frequency heads for controlling devices via traditional remote controls.

4. Blue LED status indicators provide real-time signal connection feedback for intuitive operation.

5. Zero-latency real-time conversion ideal for high-speed response applications such as FPV drones.

Specifications:

Input Voltage: DC 5-18V

Supported Protocols: CRSF/PWM/SBUS/PPM (automatic protocol conversion)

PWM Channels: 8 channels (50Hz)

LED Indicators:

Blue LED flashing: No input signal connected

Blue LED steady: Input signal connected

Interface Description:

Voltage: 5-18V

RX: CRSF Input

TX: CRSF Output

IO1: SBUS Input or PPM Input/PPM Output

IO2: SBUS Output or PPM Output

Usage Instructions:

By default, the module's PWM interface outputs channels 1-8. If points B and G (circled in the left diagram) are shorted, the PWM stage will output channels

9-16.

By default, the module's SBUS interface inputs and outputs standard SBUS (inverted). If points A and G within the circle in the left diagram are shorted, the SBUS interface will input and output non-inverted SBUS (to accommodate certain non-standard SBUS interface devices).

Product Description:

This module enables remote controllers employing PPM/SBUS/PWM protocols to connect to ELRS transmitters.

The PPM protocol training port of RC aircraft controllers may be connected to this module.

SBUS protocol remote controllers can be used with this module (requires connection to an SBUS receiver).

ELRS communication model aircraft remote controllers (firmware version 3.0 or higher) can connect to this module. This module can also be used to connect an ELRS transmitter, enabling SBUS/PWM/PPM remote controllers to connect to the ELRS transmitter to control ELRS communication-based receiver equipment, such as FPV drones.

Additional Notes:

- PWM Protocol Input: Supports real-time conversion and output of SBUS protocol (inverted), CRSF protocol, and PPM protocol. (Zero latency)

- PPM Protocol Input: Supports real-time conversion and output of SBUS protocol (inverted), CRSF protocol, and 8-channel PWM protocol. (Zero latency)

- SBUS Protocol Input: Enables real-time conversion and output of CRSF protocol, PPM protocol, and 8-channel PWM protocol. (Zero latency)

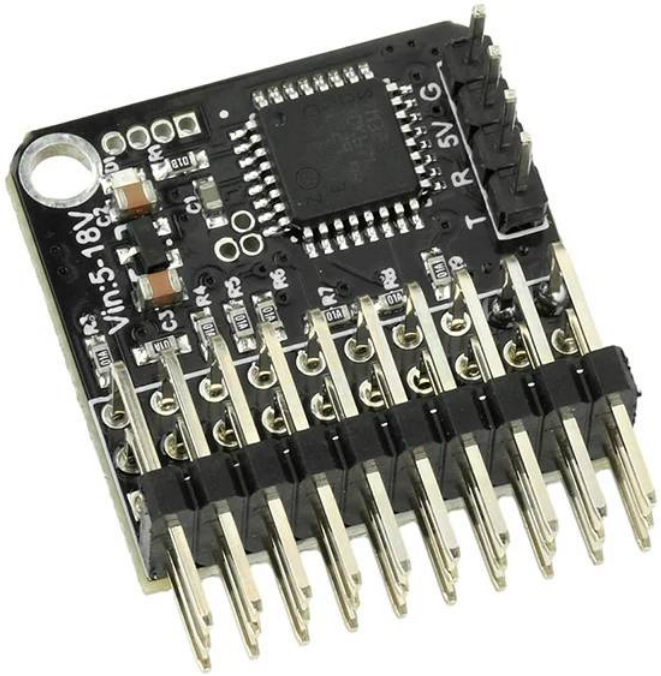
- CRSF Protocol Input: Enables real-time conversion and output of SBUS protocol (inverted), PPM protocol, and 8-channel PWM protocol. (Zero latency)

Product Listing:

PWM Signal Conversion Module*1

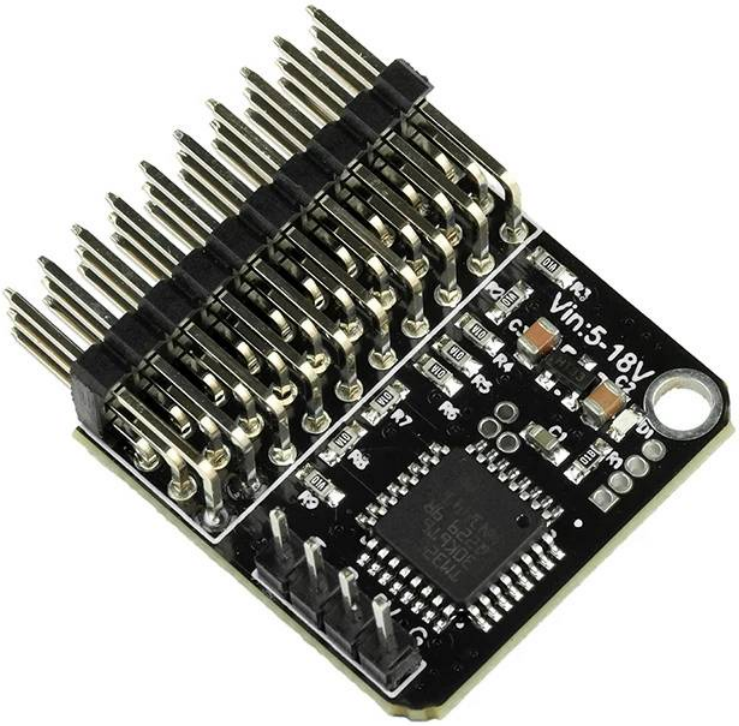
DC 5-18V 8-Channel Signal Converter

Wide voltage input range of 5-18V, ensuring stable operation across diverse power supply environments



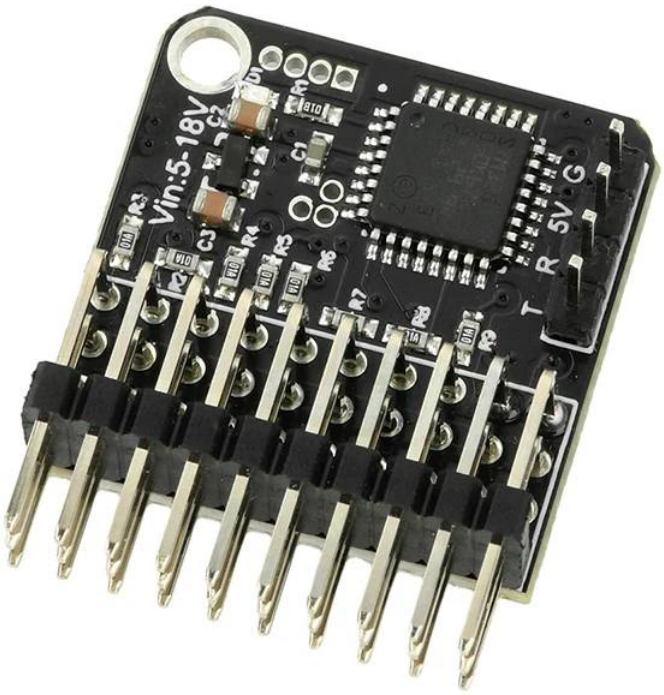
PWM Adapter Board

Connects to satellite dish receivers to enable control of equipment via conventional remote controls



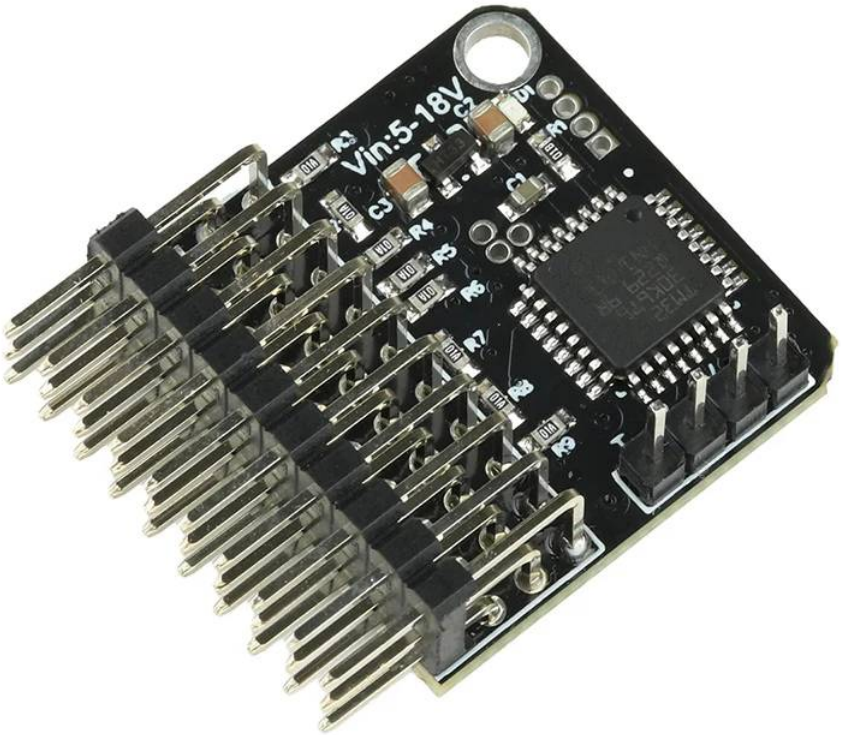
PWM Conversion Module

Blue indicator lights display status, providing real-time feedback on signal connections for intuitive operation

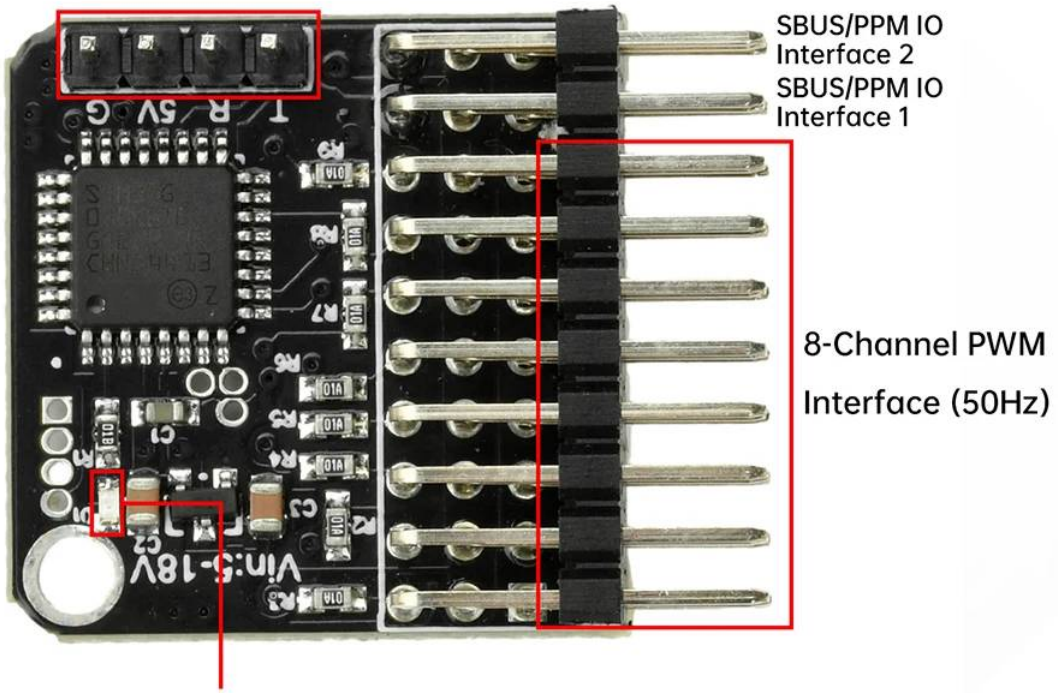


FPV Drone Receiver

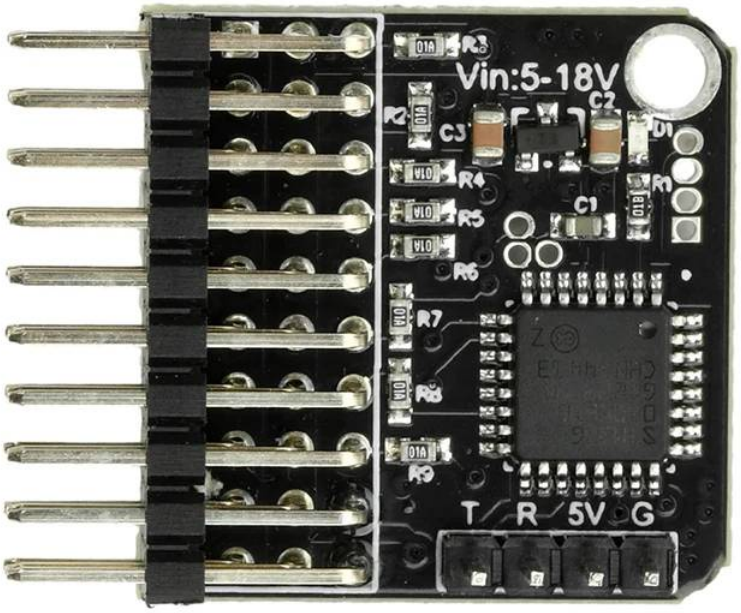
Delay-free real-time conversion, suitable for high-speed response scenarios such as FPV drones



Elrs Receiver (CRSF Protocol)
Interface
This interface can be plugged
into the receiver module



The Perfect Match for Air-Ground Integrated Drones

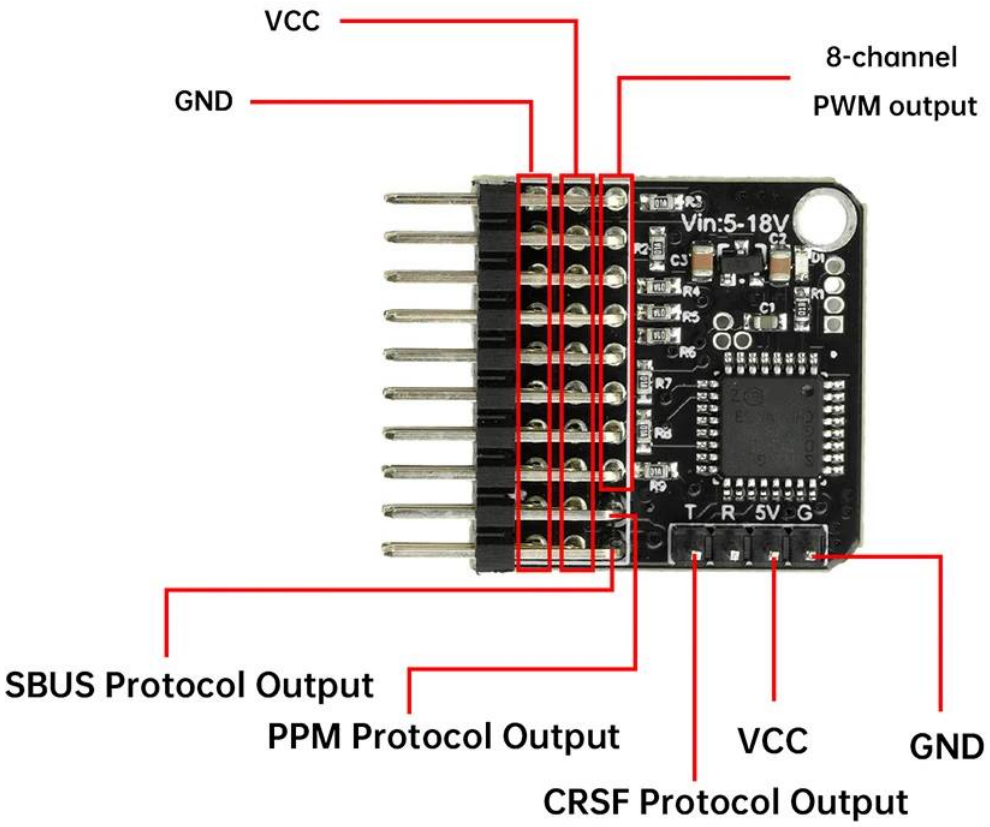


CRSF SBUS PPM PWM Protocol Conversion

CRSF Feedback with Battery Voltage Monitoring

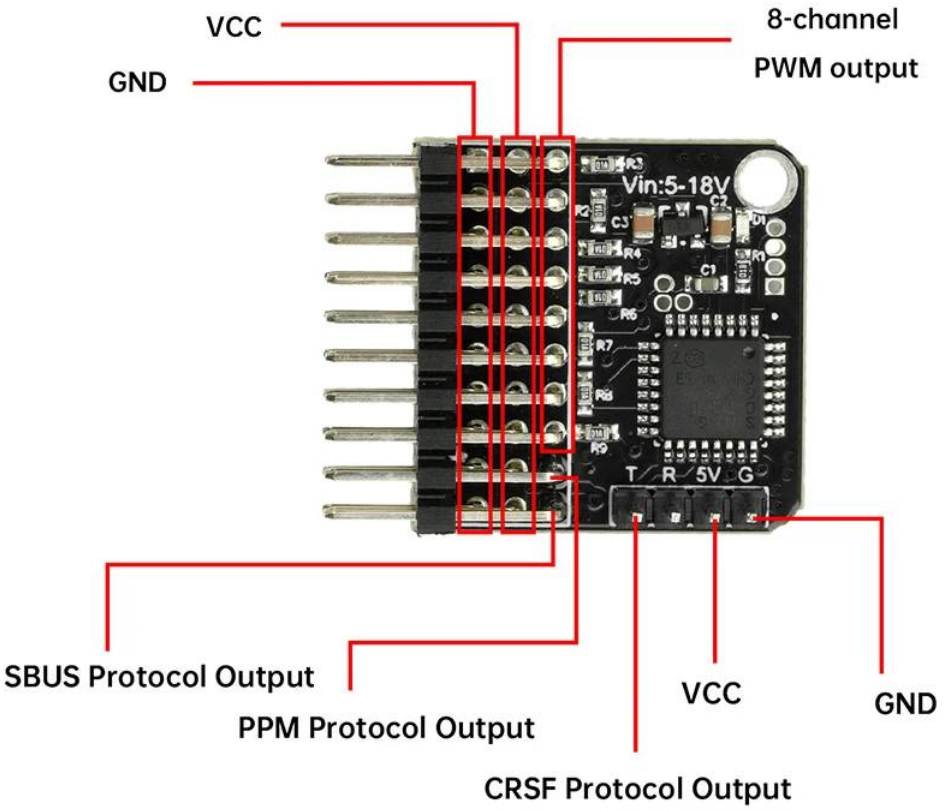
Application Scenario
PWM Protocol Input

Capable of real-time conversion to output SBUS protocol (inverted), CRSF protocol, and PPM protocol (without delay)



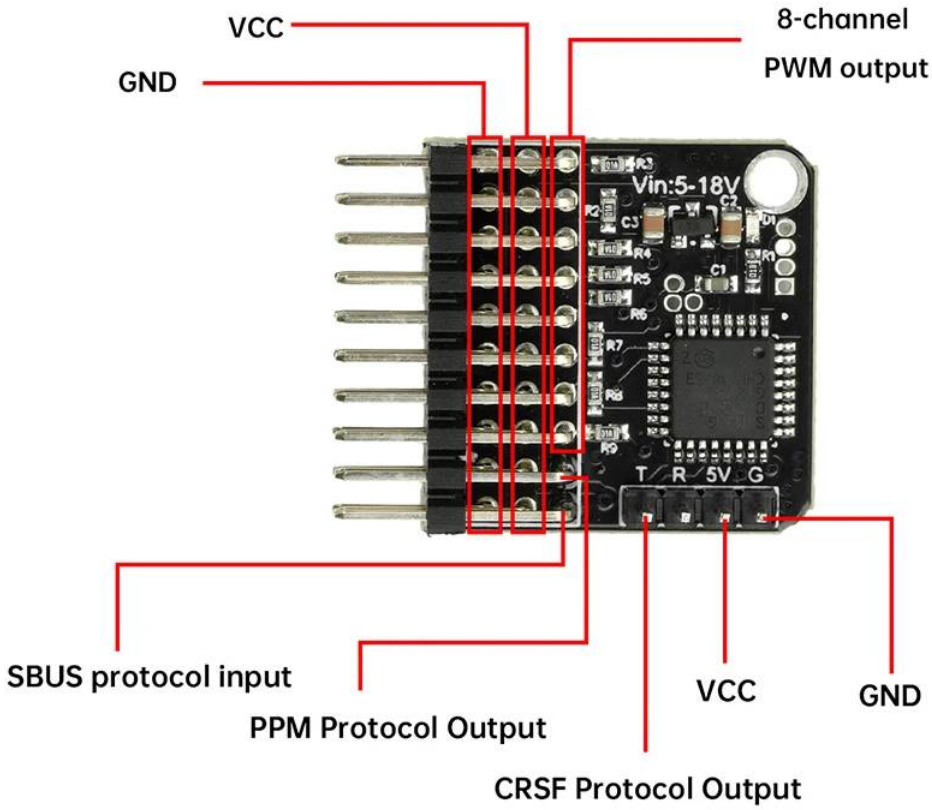
Application Scenario
PPM Protocol Input

Capable of real-time conversion and output to SBUS protocol (inverted polarity), CRSF protocol, and 8-channel PWM protocol (Zero latency)



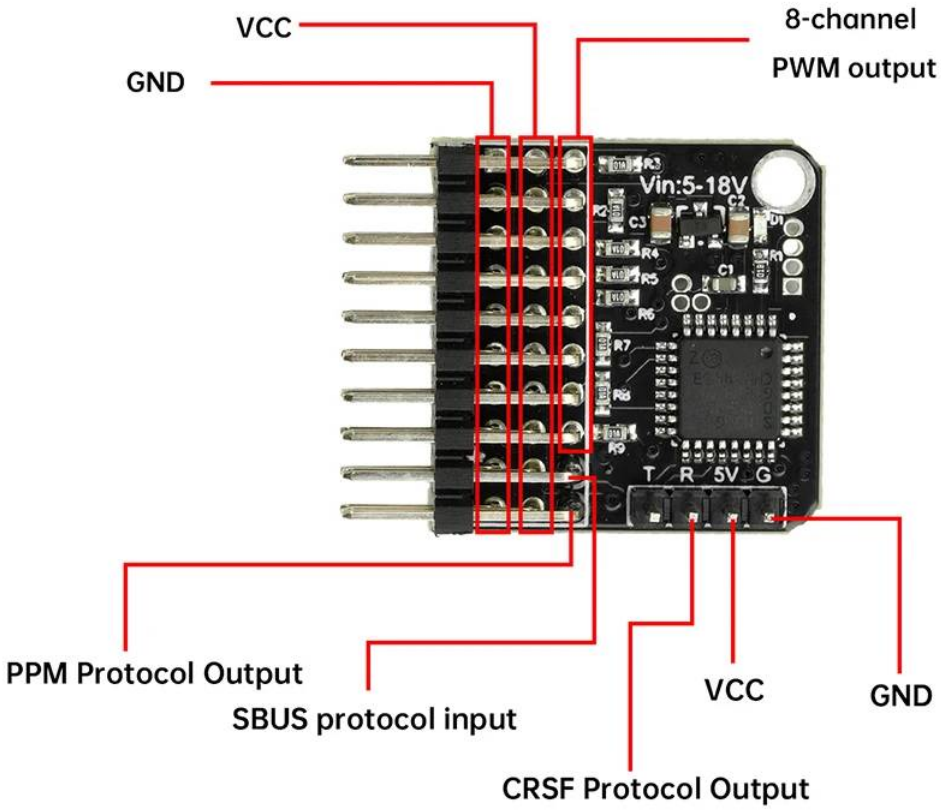
Application Scenario
SBUS Protocol Input

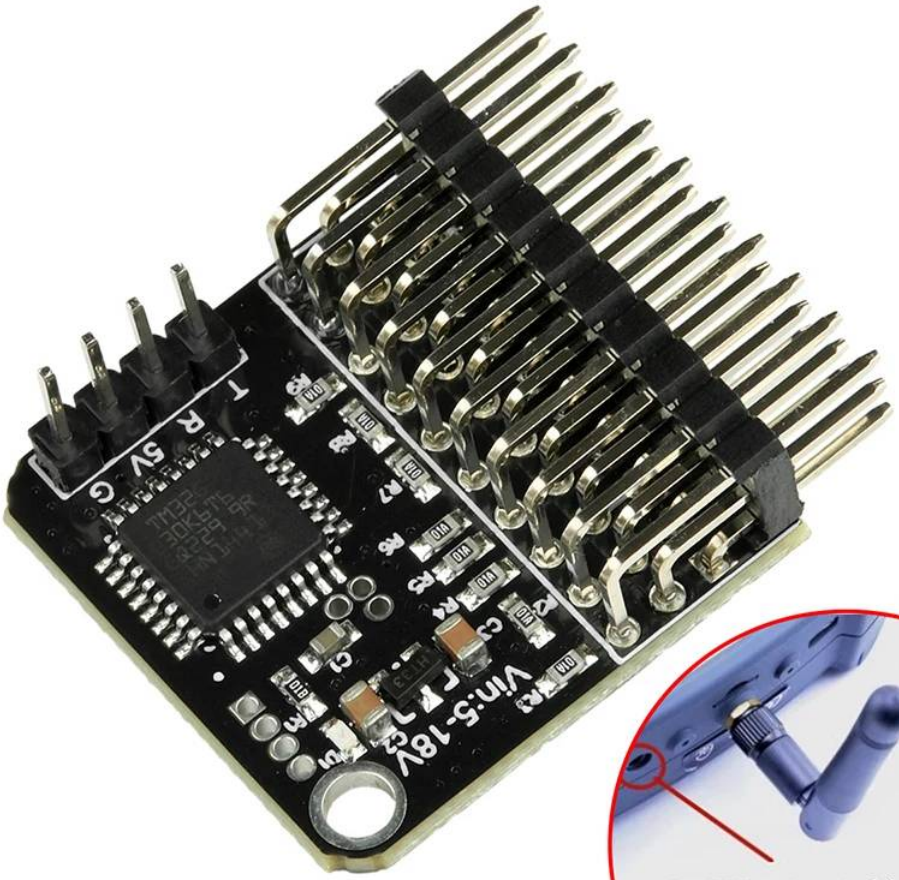
Capable of real-time conversion and output to CRSF protocol, PPM protocol, and 8-channel PWM protocol. (No delay)



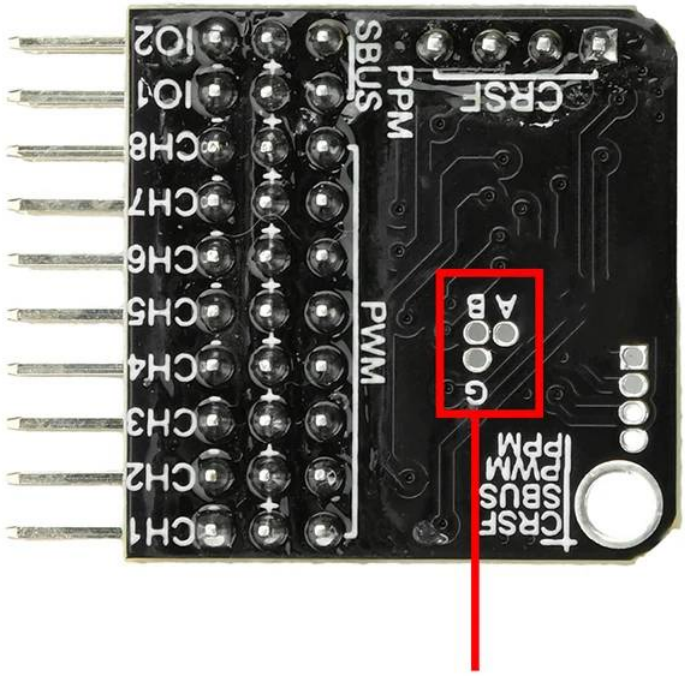
Application Scenario
CRSF Protocol Input

Capable of real-time conversion to output SBUS protocol (inverted), PPM protocol, and 8-channel PWM protocol. (No latency)





The PPM protocol training port on the RC aircraft controller can be connected to this module



By default, the module's PWM interface outputs channels 1-8. Should points B and G within the circle in the left diagram be short-circuited, the PWM stage will output channels 9-16.
By default, the module's SBUS interface inputs and outputs standard SBUS (inverted).
Should points A and G within the circle in the left diagram be short-circuited, the SBUS interface will input and output non-inverted SBUS
(to accommodate certain non-standard SBUS interface devices).

Product Specifications:
Input Voltage: DC 5-18V
Supported Protocols: CRSF/PWM/SBUS/PPM (automatic protocol conversion)
PWM Channels: 8 channels (50Hz)
LED Indicators:
Blue LED flashing: Indicates no input signal connected
Blue LED steady: Indicates input signal connected

Interface Description:
Voltage: 5-18V
RX: CRSF Input
TX: CRSF Output
IO1: SBUS Input or PPM Input/PPM Output
IO2: SBUS Output or PPM Output

Usage Instructions:
By default, the module outputs PWM channels 1-8 via its PWM interface. If points B and G (circled in the left diagram) are shorted, the PWM stage will output channels 9-16.
By default, the module's SBUS interface inputs and outputs standard SBUS (inverted). If points A and G within the circle in the left diagram are shorted, the SBUS interface will input and output non-inverted SBUS (to accommodate certain non-standard SBUS interface devices).

Product Description:

This module enables remote controllers employing PPM/SBUS/PWM protocols to connect to ELRS transmitters.

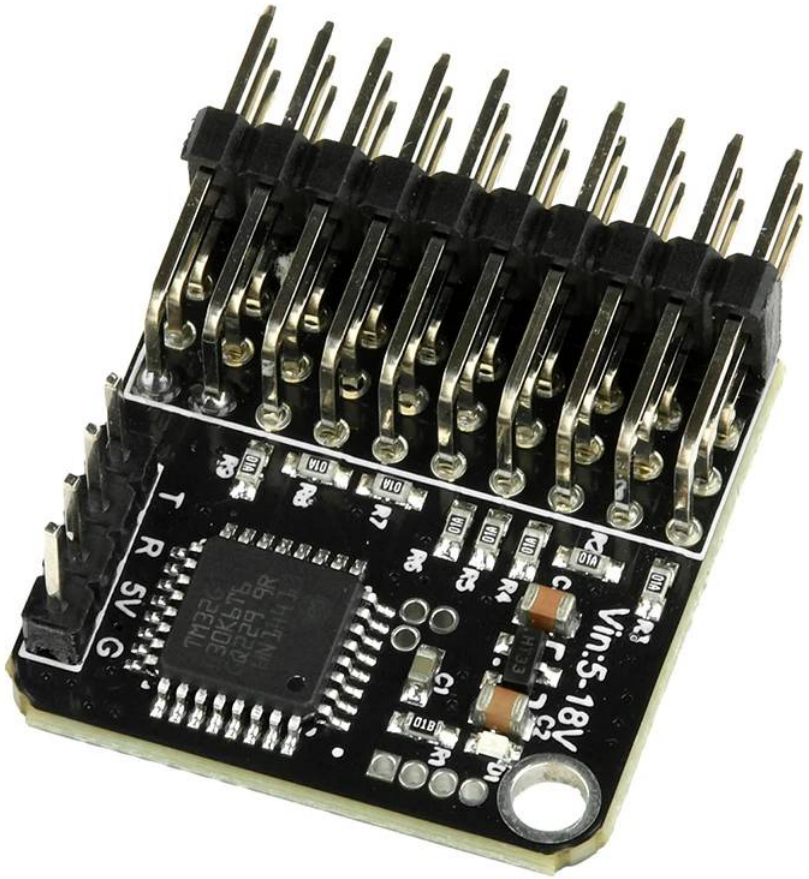
The PPM protocol training port of RC controllers may be connected to this module.

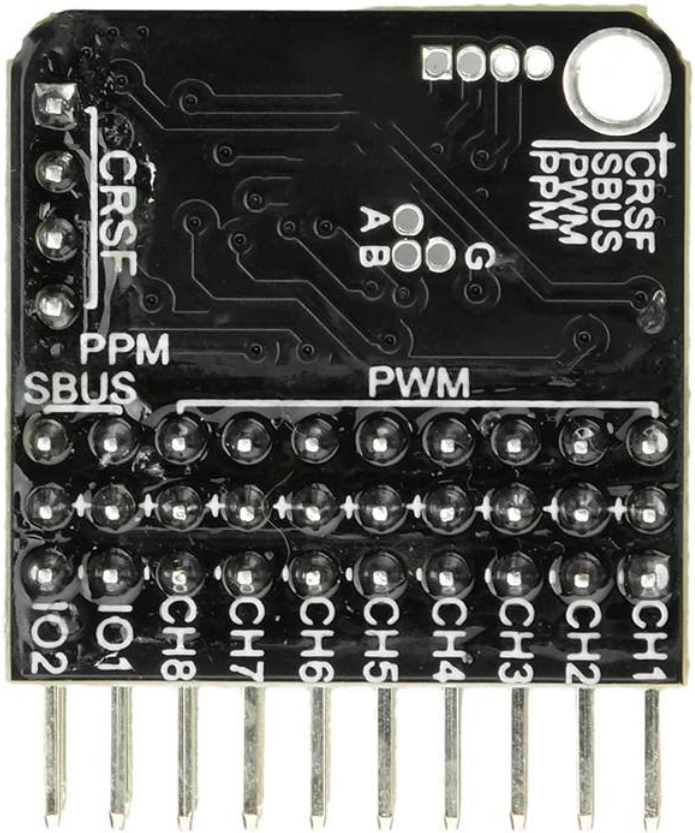
SBUS protocol controllers may be used with this module (requires connection to an SBUS receiver).

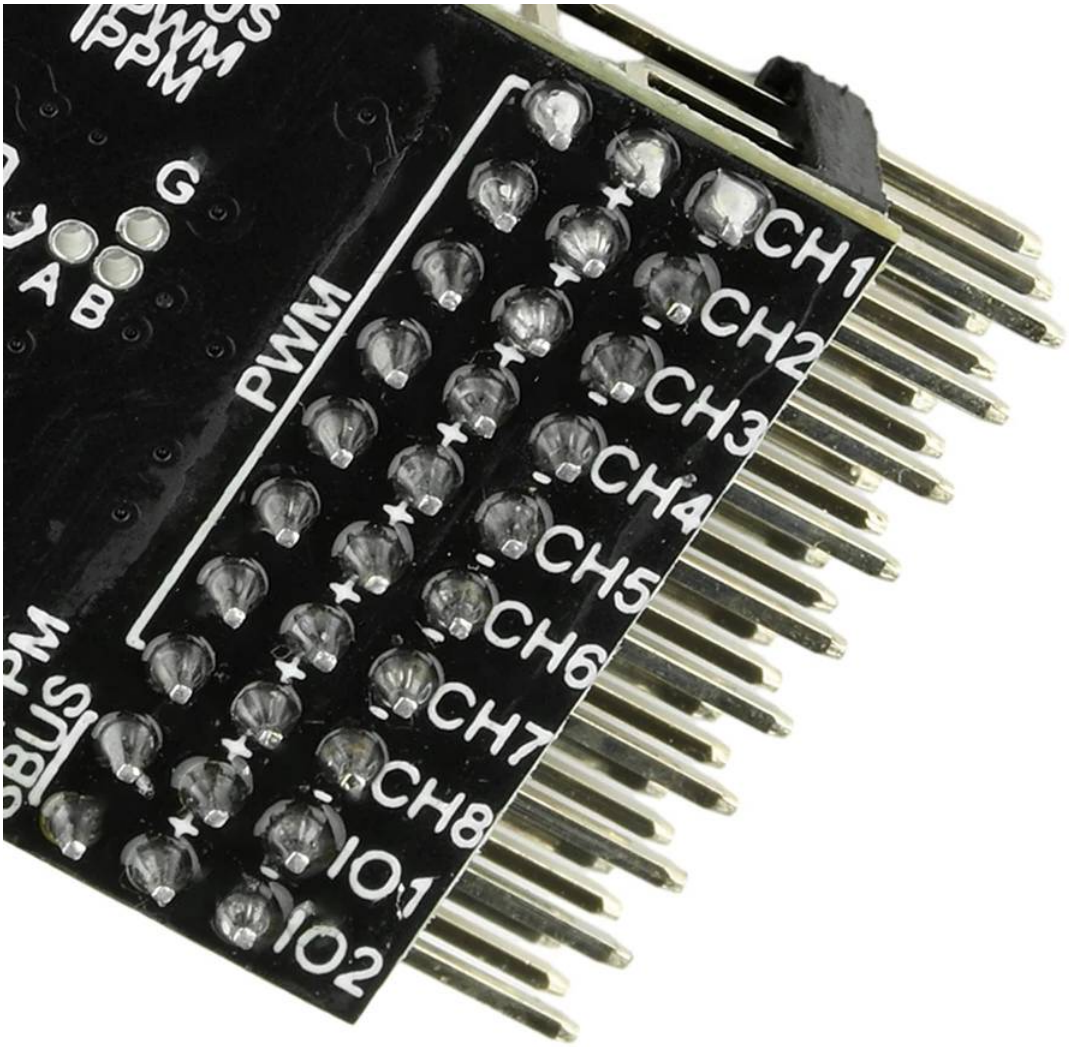
ELRS communication model aircraft controllers (firmware version 3.0 or higher) may connect to this module. This module may also be employed to connect an ELRS transmitter, enabling SBUS/PWM/PPM remote controllers to interface with the ELRS transmitter for controlling ELRS-communicating receivers, such as FPV drones.

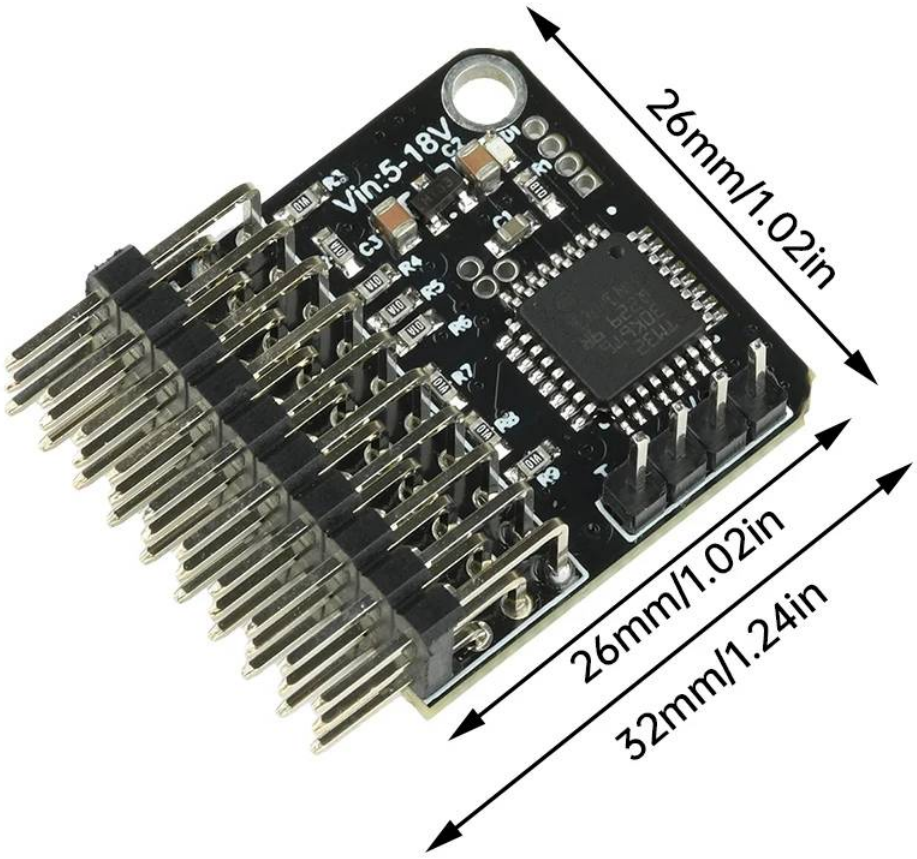
Additional Specifications:

- **PWM Protocol Input: Enables real-time conversion and output of SBUS protocol (inverted), CRSF protocol, and PPM protocol. (Zero latency)**
- **PPM protocol input: Can convert and output SBUS protocol (inverted), CRSF protocol, and 8-channel PWM protocol in real time. (No delay)**
- **SBUS protocol input: Can convert and output CRSF protocol, PPM protocol, and 8-channel PWM protocol in real time. (No delay)**
- **CRSF protocol input: Can convert and output SBUS protocol (inverted), PPM protocol, and 8-channel PWM protocol in real time. (No delay)**


T
R
5V
G
Vin:5-18V


CRSF
PPM
SBUS
PWM
CRSF
SBUS
PWM
PPM
A
B
G
IO2
IO1
CH8
CH7
CH6
CH5
CH4
CH3
CH2
CH1


PPM
G
A
B
PWM
CH1
CH2
CH3
CH4
CH5
CH6
CH7
CH8
IO1
IO2


Vin:5-18V
26mm/1.02in
26mm/1.02in
32mm/1.24in