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Link do produktu: https://www.nobshop.pl/odbiornik-matek-expresslrs-elrs-r24-d-24ghz-diversity-receiver-p-3184.html



Odbiornik Matek ExpressLRS ELRS-R24-D 2.4GHz Diversity Receiver

Cena brutto	**92,00 zł**
Cena netto	**74,80 zł**
Dostępność	**Aktualnie niedostępny**
Czas wysyłki	**1 - 3 dni**
Kod producenta	**ELRS-R24-D**
Producent	**Matek Systems**

Opis produktu

ELRS-R24-D Specifications

- ESP8285, SX1280/1281IMLTRT
- PA/LNA: SE2431L
- Antenna connector: IPEX MHF 1
- RF Frequency: 2.4GHz (2400~2480MHz)
- Telemetry power: 22.5dbm~23dbm
- SE2431L RX_gain: 12.5dB
- Diversity (antenna-switching), default ANT2
- Receiver protocol: CRSF
- Input voltage: 4~9V DC @ 5V pad
- Power dissipation: 40~45mA(before binding), 70~75mA(binding), 90~95mA(wifi mode)
- PCB size: 21mm x 15mm
- Weight: 3g w/ 2x antennas
- Packing: 1x ELRS-R24-D, 2x IPEX MHF1 Antennas

Firmwares

- **ExpressLRS MATEK_2400_RX** http://www.mateksys.com/?portfolio=elrs-r24#tab-id-4
- Firmware update via UART or WIFI
- ELRS-R24-D: enable “USE_DIVERSITY” (checked) when flashing in ExpressLRS configurator

TIPS

- ***“Any ELRS 2.4Ghz receivers can work with any ELRS 2.4Ghz TX Modules, from any manufacturer and even the DIY ones. This is as long as they have the same binding phrase and configuration options (Regulatory Domain, Performance Options and Extra Data).”***
- *More details about ExpressLRS, pls check out* ExpressLRS wiki

Wiring with FC

- Receiver RX — FC UART_TX for Telemetry
- Receiver TX — FC UART_RX for Control
- Receiver 5V — FC 5V or 4v5

- Receiver G — FC GND
- Receiver protocol: Serial-based receiver – CRSF

Traditional Binding

- ***Receivers have ExpressLRS fw preloaded without BINDING_PHRASE***

1. Power on and off your receiver three times
2. Make sure the LED is doing a quick double blink, which indicates the receiver is in bind mode
3. Use the [BIND] button on the Transmitter Lua script, which sends out a binding pulse
4. Receiver will switch to slow blink once it has received binding pulse.
5. Power off and power on receiver again. If the receiver LED switch to solid on from slow blink, it’s bound with your transmitter.

- ***Important: If the RX firmware has a bind phrase, the RX will never enter binding mode using the above procedure. It must be flashed without a binding phrase to do traditional binding.***

Flashing with ESP_NodeMCU-PyFlasher

1. Connect receiver to USB-TTL module(RX-TX, TX-RX, 5V-5V, G-GND)
2. Connect USB to PC while pressing and holding the boot button in.
3. open ESP_NodeMCU-PyFlasher
4. select **Serial port** of USB-TTL module, load firmware, select “**Dual Output(DOUT)**” and “**Yes.wipes all data**“
5. click “**Flash NodeMCU**“
6. after flashing, Power off and power on your receiver, receiver will enter binding mode(quick double blink).

Flashing with ELRS configurator

- MATEK_2400_RX target is supported by ELRS configurator 1.1.0 with fw release 1.2.0 or newer.

Comparison in ELRS-R24 series

SKU	**R24-P**	R24-D	R24-S
RF Frequency	2.4GHz	2.4GHz	2.4GHz
Antenna	IPEX MHF1	2x IPEX MHF1 Diversity	SMT Antanna
PA/LNA	/	SE2431L	AT2401C
Telemetry	12dbm	23dbm	20dbm
LNA Rx_gain	/	12.5dB	12dB
CRSF Serial receiver	DIY_2400_RX_ESP8285_SX1280	MATEK_2400_RX	MATEK_2400_RX
PWM receiver	MATEK_2400_RX_PWM	/	/

Comparison between ELRS-R24-P and CRSF-PWM converter

SKU	**R24-P**	CRSF-PWM-6	CRSF-PWM-C
	Receiver with ELRS direct PWM output	CRSF to PWM Converter/Decoder	
PWM	5	6	10

outputs		
RF Frequency	2.4GHz	compatible with any CRSF protocol receivers (including 433MHz, 868MHz, 915MHz, 2.4GHz)
PWM frequency	50Hz	50, 100, 160, 330, 400Hz
Telemetry	RSS, Qly SNR	RSSI, Qly SNR
ID		RxBt, Curr, Capa, Bat%, GPS, GSpd, Hdg, Alt, Sats
CH remapping	support	No