

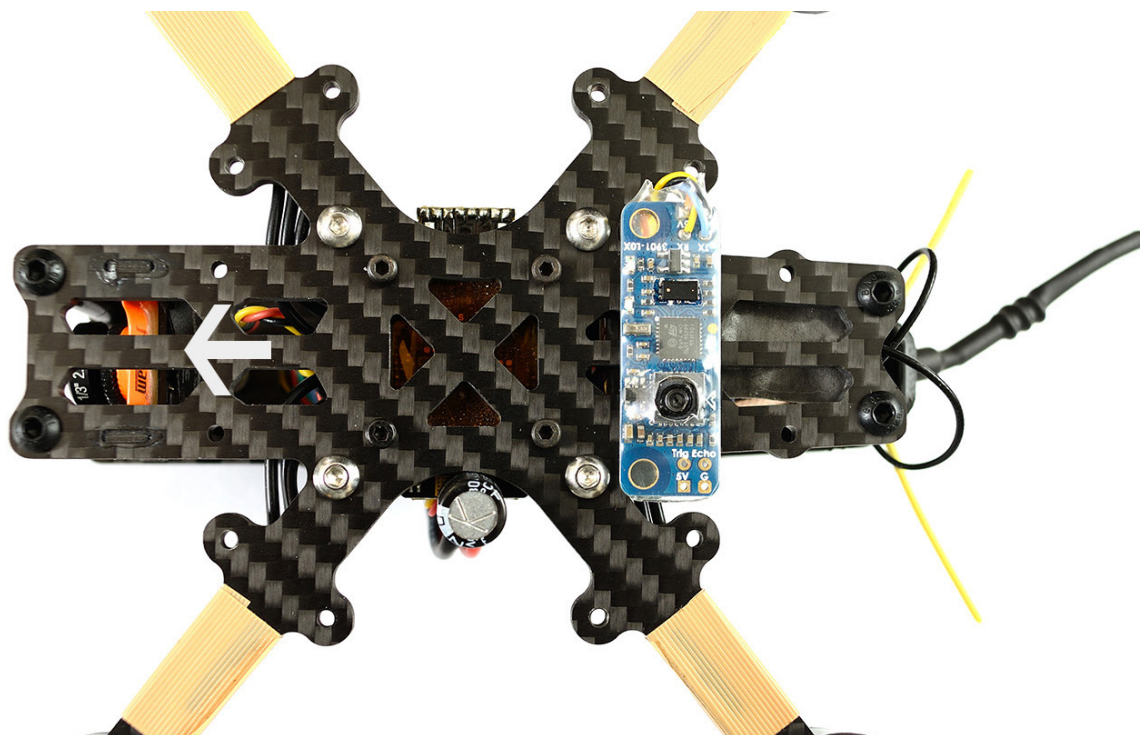
Link do produktu: <https://dronexpert.eu/modul-matek-optical-flow-lidar-sensor-3901-l0x-p-15385.html>

Moduł Matek OPTICAL FLOW & LIDAR SENSOR 3901-L0X



Cena brutto	129,52 zł
Cena netto	105,31 zł
Dostępność	Dostępna mała ilość Zapytaj o dostępność/Wysyłka/Odbiór osobisty
Kod producenta	SENSOR 3901-L0X
Producent	MATEKSYS

Opis produktu



[Setting up Optic Flow in INAV](#) PDF manual by digitalentity

Specifications

- Optical Flow: PMW3901
- Lidar: VL53L0X
- Interface UART
- Protocol: MSP
- Working Range: 8cm~200cm
- Field of view: 42 degree(PMW3901), 27 degree(VL53L0X)
- Minimum Illumination >60Lux
- Input voltage: 4.5~5.5V
- Power Consumption: 40mA

- Size: 36*12mm (F051 version), 2g
- Size: 36*13mm (L051 version) 2g

Packing

- Module 3901-L0X, 1pc

Tips

- Make sure Optical Flow lens to ground >2cm for opflow initialization while FC starting up.
- Maximum range of VL53L0X is 2m, Altitude hold 0~2m @ throttle 0~100% if VL53L0X is enabled.
- Any unused UART of FC supports it
- Sonar connection (Trig & Echo) has not been implemented
- **If your flight controller doesn't have a barometer detected, you won't be able to select "NAV ALTHOLD" in modes tab.**

Thread <https://discuss.ardupilot.org/t/msp-protocol-support/57944>

ArduPilot latest firmware has supported MSP protocol since Sep.02

- SERIALn_PROTOCOL = 32, "n" is serial number of UART in ArduPilot hwdef, not the FC UART number. On some flight controllers, serial1 is not equal to UART1, Pls checkout FC manual to get corresponding serial number for each UART.
- SERIAL_BAUD = 115
- RNGFND_TYPE = 32
- FLOW_TYPE = 7

Communication between 3901-L0X module and Flight controller via UART MSP V2 protocol supported by INAV and ArduPilot.

There is no detailed datasheet of MSP V2 protocol.

Pls refer the code in INAV and ArduPilot Github

<https://github.com/iNavFlight/inav/wiki/MSP-V2>

https://github.com/ArduPilot/ardupilot/blob/master/libraries/AP_MSP/msp.cpp