

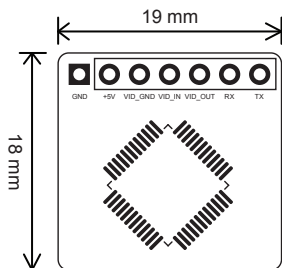
Introduction

The FrSky OSD (On-Screen Display) is a tool which can be used for connecting the gears between flight controller and camera. The generated real-time data via OSD (such as RSSI, current, voltage, altitude, etc.) will be programmed as an image to be superimposed on a screen picture, and ultimately transmitted to the goggle or other devices for the video feed on the ground. FrSky also offer the alternative mini version for some customized usage.

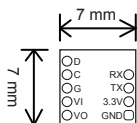
Specifications

Model Name	Dimension	Current consumption	Operating Voltage	Weight
OSD	19mm*18mm*3mm (L*W*H)	38mA@5V	5V	1.5g
OSD Mini	7mm*7mm*2mm (L*W*H)	35mA@3.3V	3.3V	0.3g

Layout



- +5: VCC +5V
- VID_GND: Video GND
- VID_IN: Video input (To Camera)
- VID_OUT: Video output (To VTX)
- RX: To FC TX
- TX: To FC RX



- G: GND
- VI: Video input (To Camera)
- VO: Video output (To VTX)
- RX: To FC TX
- TX: To FC RX
- 3.3V: VCC +3.3V

Parameter Configuration. (Take INAV for example)

Step 1: After connecting OSD, FC and VTX, open INAV software, select the corresponding UART, and click save.

Ports DOCUMENTATION FOR INAV

Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.
Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Identifier	Data	Telemetry	RX	Sensors	Peripherals
USB VCP	<input checked="" type="checkbox"/> MSP 115200 ▾	Disabled ▾ AUTO ▾	<input type="checkbox"/> Serial RX	Disabled ▾ 115200 ▾	Disabled ▾ 115200 ▾
UART1	<input checked="" type="checkbox"/> MSP 115200 ▾	Disabled ▾ AUTO ▾	<input type="checkbox"/> Serial RX	Disabled ▾ 115200 ▾	Disabled ▾ 115200 ▾
UART2	<input type="checkbox"/> MSP 115200 ▾	Disabled ▾ AUTO ▾	<input checked="" type="checkbox"/> Serial RX	Disabled ▾ 115200 ▾	Disabled ▾ 115200 ▾
UART3	<input type="checkbox"/> MSP 115200 ▾	Disabled ▾ AUTO ▾	<input type="checkbox"/> Serial RX	Disabled ▾ 115200 ▾	FrSky OSD ▾ 115200 ▾
UART6	<input type="checkbox"/> MSP 115200 ▾	Disabled ▾ AUTO ▾	<input type="checkbox"/> Serial RX	Disabled ▾ 115200 ▾	Disabled ▾ 115200 ▾
UART7	<input type="checkbox"/> MSP 115200 ▾	Disabled ▾ AUTO ▾	<input type="checkbox"/> Serial RX	Disabled ▾ 115200 ▾	Disabled ▾ 115200 ▾

Step 2: Select OSD option for parameter configuration

- Setup
- Calibration
- Mixer
- Outputs
- Presets
- Ports
- Configuration
- Failsafe
- PID tuning
- Advanced tuning
- Receiver
- Modes
- Adjustments
- GPS
- Mission Control
- OSD
- LED Strip

OSD

Default Layout ▾

General

- RSSI (Signal Strength) ⓘ
- Battery Voltage
- Sag Compensated Battery Voltage ⓘ
- Battery Cell Voltage ⓘ
- Sag Compensated Battery Cell Voltage ⓘ
- Power Supply Impedance
- Battery Remaining Percentage
- Remaining Flight Time ⓘ
- Remaining Flight Distance ⓘ
- Throttle Position
- Throttle Position / Auto Throttle ⓘ
- Craft Name
- Flymode
- System Messages ⓘ
- Heading
- Heading Graph
- Time of the Day ⓘ

Preview (drag to change position)

DOCUMENTATION FOR INAV

Video Format

AUTO PAL NTSC

Settings

Metric ▾ Units

Alarms

- 20 ▾ RSSI (%)
- 10 ▾ Fly Time (minutes)
- 100 ▾ Altitude (m)
- 5 ▾ Negative Altitude (m) ⓘ
- 1000 ▾ Distance (m) ⓘ
- 5 ▾ g force (g) ⓘ
- 5 ▾ g force axis min (g) ⓘ
- 5 ▾ g force axis max (g) ⓘ
- 0 ▾ Current (A) ⓘ
- 20 ▾ Minimum IMU temperature (°C) ⓘ

FrSky is continuously adding features and improvements to our products. To get the most from your product, please check the download section of the FrSky website www.frsky-rc.com for the latest update firmware and manuals.

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