

OPLINK Mini Air&Ground Telemetry Manual

Oplink mini Air

Dimensions:34mm x19.5mm x10.5mm (included case)

Frequency:433mhz

Input Voltage: +5v

Oplink mini ground

100mw Standalone Radio Modem

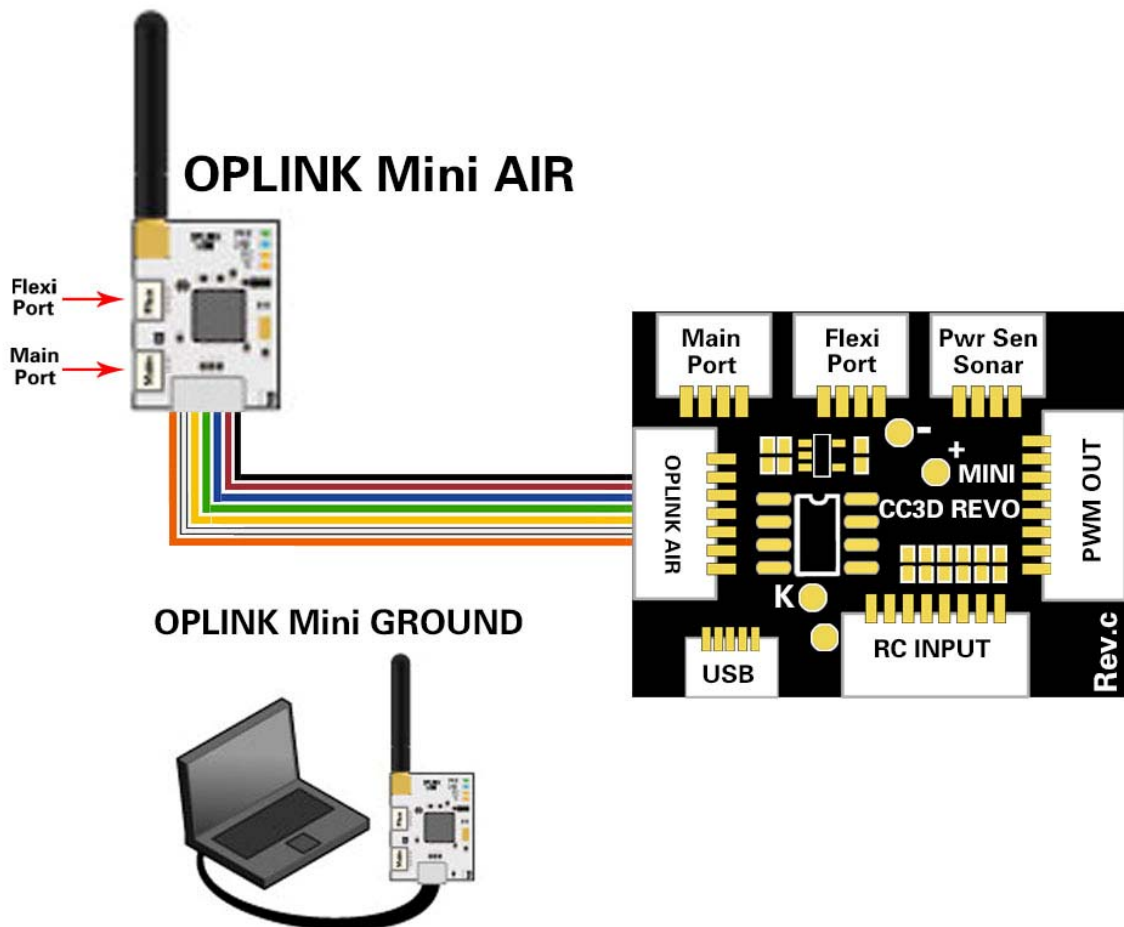
3 IO Ports: Micro-B USB, Mainport & Flexiport

Dimensions: 38mm x23mm x10mm (included case)

Input Voltage: +5v

Frequency:433mhz

Connection diagram



Binding

Coordinator side

1. Connect to the OPLink mini Ground module that you are going to use as Coordinator.
2. Go to the OPLink page in the GCS, available on the Configuration tab's left bar. It is only visible if an OPLink or Revolution is connected.
3. Set the following recommended settings:
 1. "Max Power" **100** (or maximum for your country)
 2. "Com Speed" **38400**
 3. "Max chan" **250**
 4. "Min chan" **0**
 5. Tick the **Coordinator** checkbox
 6. Click **Save**, wait a few seconds for the telemetry gadget (the meter at the bottom of the GCS) to calm down.
4. Write down the Device ID. You are going to use it later.
5. Disconnect from the coordinating module.

OPLink configuration

Remote modems

Unbind	0		-127dB
Unbind	0		-127dB
Unbind	0		-127dB
Unbind	0		-127dB

Coordinator ID

Configuration

PPM Only One-Way Max Power

Com Speed

Max Chan (440.000 MHz) Main Port

Min Chan (430.000 MHz) Flexi Port

VCP Port

Coordinator

Status

Firmware Ver.	RELEASE-15.05.2	2015-08-16 11:21	Device ID	32AA9ED0	Link State	Enabled	
Serial Number	[REDACTED]		Link Quality	128	RSSI	0	
RX Good	64	TX Dropped	0	TX Seq. No.	3951	TX Rate (B/s)	152
RX Corrected	0	Tx Failure	0	RX Seq. No.	0	RX Rate (B/s)	0
RX Errors	0			Free Heap	2816	UAVTalk Errors	0
RX Missed	0			Timeouts	0	Resets	0
RX Failure	0						

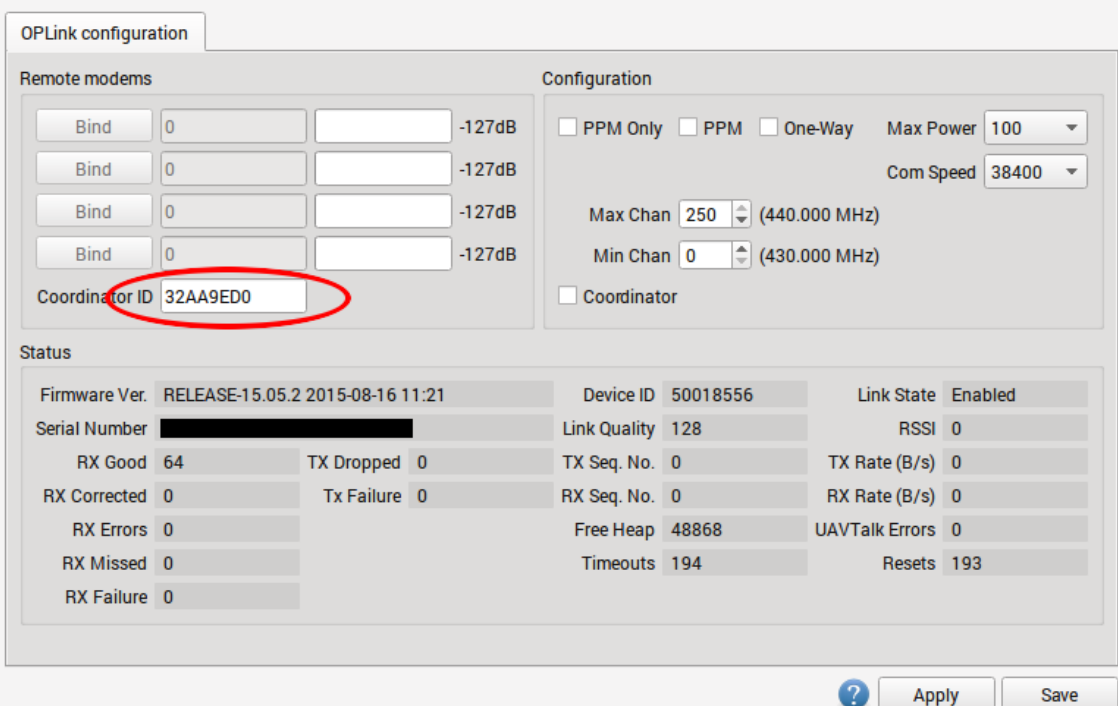
The OPLink Save button will display a green "tick" when settings are saved, but it can disappear soon after settings are saved. This is normal behavior.

Using custom frequencies

If your country allows only a fraction of the available frequency band to be used, you can adjust the operational OPLink channel range to reflect that. The GCS indicates minimum and maximum used frequency when you change min and max channels. Both OPLinks must have the same min and max channel pair to bind successfully.

Slave side

1. Connect to the Oplink Mini Air module that is going to be the connection slave
2. On the OPLink page in the GCS, set exactly the same **Max Power, Com Speed, Max chan** and **Min chan** as you did for the Coordinator. **DO NOT** tick the “Coordinator” checkbox.
3. Enter the Device ID that you wrote down from Coordinator into the **Coordinator ID** text box.
4. Click **Save**, wait a few seconds for the telemetry gadget (the meter at the bottom of the GCS) to calm down.
5. Disconnect from the slave module. The bind is complete.



OPLink configuration

Remote modems

Bind	0		-127dB
Bind	0		-127dB
Bind	0		-127dB
Bind	0		-127dB

Coordinator ID **32AA9ED0**

Configuration

PPM Only PPM One-Way Max Power 100

Com Speed 38400

Max Chan 250 (440.000 MHz)

Min Chan 0 (430.000 MHz)

Coordinator

Status

Firmware Ver.	RELEASE-15.05.2 2015-08-16 11:21	Device ID	50018556	Link State	Enabled
Serial Number		Link Quality	128	RSSI	0
RX Good	64	TX Dropped	0	TX Rate (B/s)	0
RX Corrected	0	Tx Failure	0	RX Rate (B/s)	0
RX Errors	0	Free Heap	48868	UAVTalk Errors	0
RX Missed	0	Timeouts	194	Resets	193
RX Failure	0				

Apply Save

More information please click [OPenpilot Wiki](#)