

PlutoDVB General setup

Main mode selection

☒ DATV ☐ Passthrough (SDR Console,...) ☐ Transverter ☐ Signal generator

DATV operating mode

☐ RTMP ☒ UDP ☐ Pattern ☐ Repeater

Apply Settings

DATV transmission settings

General use

Callsign

G0MJW

DVB Provider Name

_Mike

Transmission permitted at start-up

no

enabled

Conversion gain to display the real power (approximate absolute output level) (dB)

Maximum adjustable power (dB)

Minimum adjustable power (dB)

OBS Studio steering

Activation of OBS Studio steering

no

enabled

OBS Studio IP address

192.168.1.111

✕

OBS websocket port

4444

OBS websocket password

H264/H265 box

Use of a H264/H265 box

no

enabled

IP address

192.168.1.120

✕

Administrator login

admin

Password

12345

Apply Settings

Strategy Setting table

This modifiable table makes it easy to set the parameters of the H264/265 encoder automatically according to the stream transport rate (depending on the transmitted signal characteristics).
Attention, in this version the editable cells are not verified at all.

Priority	Total bitrate available	Audio channels	Audio Bitrate (kb/s)	GOP	Video Width	Video Height	FPS	Video Rate (kb/s)	PCR/PTS (ms)	PAT period (ms)
1	5000	2	64	200	1920	1080	30	1000	800	200
2	1200	2	64	50	1920	1080	25	999	800	200
3	400	2	32	50	768	432	25	300	800	200
4	250	1	32	30	756	324	15	200	800	200
5	200	1	32	30	384	216	15	120	800	200
6	100	1	32	20	384	216	10	64	800	200

Apply Settings

Avanced ⚠ for expert use only

16APSK, 32APSK characteristics

<u>16APSK phase</u> (relative degrees)	<div><div></div></div> 0.0 °	<u>16APSK magnitude</u> (relative factor)	<div><div></div></div> 1.45
<u>32APSK phase 1</u> (relative degrees)	<div><div></div></div> 0.0 °	<u>32APSK magnitude 1</u> (relative factor)	<div><div></div></div> 1.45
<u>32APSK phase 2</u> (relative degrees)	<div><div></div></div> 0.0 °	<u>32APSK magnitude 2</u> (relative factor)	<div><div></div></div> 1.45

Radio

<u>Watchdog</u> (min)	<div></div>	<u>Remux - Force compliant</u>	yes enabled
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System

<u>Xo Correction</u>	<div></div>	<u>UDC Handle suspend</u>	<div></div>
<u>Diagnostic report</u>	<div></div>	<u>DFU (Device Firmware Update)</u>	<div></div>
<u>Reset</u>	<div></div>	<u>Calibrate</u>	<div></div>

Apply Settings

DATV Reception

Spectrum

You can display a wideband reception spectrum on the controller. The source can be either an external source (internet) or the reception channel, active in full-duplex (For the safety of your Pluto receiver, be careful to use two different transmit and receive bands or switch in case of DATV traffic in simplex or near frequencies). If you are using a transverter (e.g. an LNB), specify the offset (LNB Offset) to be used in the Receiver setup section below.

<u>Spectrum</u>	yes displayed	<u>Spectrum Band source</u>	QO-100 BATC AMSAT-UK web ▼
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The QO-100 spectrum is an online ressource of [BATC](#) / [AMSAT-UK](#). We thank them for making this resource available.

Receiver setup

To be able to control Minitioune or Longmynd, please fill in these few parameters.

<u>Destination IP address</u>	<div>232.0.0.11</div>	<u>Destination Port number</u>	<div>6789</div>
<u>UDP Broadcast IP address</u>	<div>230.0.0.10</div>	<u>UDP Broadcast Port number</u>	<div>230.0.0.10</div>
<u>LNB Offset kHz</u>	<div>9500000</div>	<u>Rx socket</u>	<div>A ▼</div>
<u>LNB Voltage V</u>	<div>0 ▼</div>	<u>LNB 22 kHz</u>	<div>Off ▼</div>
<u>DVB Mode</u>	<div>Auto ▼</div>		

Apply Settings

Display Settings

<u>Fixed menu banner at the top of all the pages</u>	no fixed
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Apply Settings

Pluto Configuration

This section read and save the `/mnt/jffs2/etc/config.txt` file. Take care of your modifications before applying them. Some modifications may make your equipment inaccessible from the network. To apply, please reboot (control button further down the page).

USB on Ethernet

This *USB on Ethernet* setup section corresponds to the IP address mounted when the pluto is plugged in USB on a computer.

Hostname	<input type="text" value="pluto"/>	IP address	<input type="text" value="192.168.2.1"/>
Host IP address (computer)	<input type="text" value="192.168.2.10"/>	Network mask	<input type="text" value="255.255.255.0"/>

Ethernet

This *Ethernet* setup section corresponds to the IP address mounted when the pluto is plugged over an Ethernet USB adapter on a local area network.

DHCP (dynamic IP)	<input type="radio" value="no"/> no <input type="radio" value="static"/> static	IP address	<input type="text" value="192.168.1.46"/>
Network mask	<input type="text" value="255.255.255.0"/>	Gateway IP address	<input type="text" value="192.168.1.1"/>

Wifi or Access Point

WLAN SSID	<input type="text"/>	WLAN Password	<input type="text"/>
WLAN IP address	<input type="text"/>		

Apply Settings