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3 INSTALLATION AND CONFIGURATION

3.1 Software Download

To be able to download the RECOVIB FEEL App from the Google Play Store, you need a USB OTG compatible Android device. Refer to your device specifications to make sure it is USB OTG compatible. Although some devices are USB OTG compatible, they may have very poor performances and may not be reliable to use with the RECOVIB FEEL. Refer to Appendix A and B for a list of devices reported to be working or not working1. From the Google Play Store, search "recovib". Select the RECOVIB FEEL App and install it (Figure 1). If RECOVIB FEEL is not listed when searching "recovib", it might mean that your Android device does not support USB Host/USB OTG.

Figure 1: Google Play Store - RECOVIB FEEL

3.2 First Usage Configuration

Once the app installed, open it and allow it to access photos, media, and files on your device (this step is only needed at first launch). You are now asked to connect the RECOVIB FEEL to your Android device through the supplied USB OTG adapter. After a few seconds, you will need to allow the app to access the USB device. Check the box to use it by default and press "OK".

Figure 2: Storage and USB access permissions

---

1These lists are for indicative purposes only
At first launch, the settings dialog opens (Figure 3). Scroll down and click "OK" for a default configuration.

You now get to the main window (Figure 4). The first usage configuration succeeded.

If you do not get to this point, it might mean that:

- The USB OTG is not properly enabled on your device. Some operations might be needed to enable OTG on your Android Device. Device specific information can be found on the internet.
- The USB OTG does not work properly on your device (see Appendix A and B).
4 OPERATION

4.1 Launching the RECOVIB FEEL App

If the first usage configuration was done properly (section 3.2), you should be able to get to the main window in two ways:

- Quit the potentially running RECOVIB FEEL App and plug the RECOVIB FEEL in your Android device through the USB OTG adapter. After a few seconds, the application opens automatically and is ready for streaming.

- Quit the potentially running RECOVIB FEEL App and launch the application manually by pressing on the application icon. The app opens and asks you to plug the RECOVIB FEEL. After a few seconds, the application opens and is ready for streaming.

4.2 Start/Stop Data Streaming

To start streaming data from the main window, simply press on the PLAY icon. To stop streaming data, simply press on the STOP icon.

4.3 Record Streamed Data

While streaming data, you can record acceleration data by pressing the RECORD icon. The icon will toggle till the recording is stopped. The recording stops either after the RECORD icon is pressed again or automatically after a user-defined number of minutes (see section 4.3.1).
4.3.1 Set the Recording Time Limit

To define the recording time limit, press the RECORDING SETTINGS icon when no recording is ongoing. The recording settings dialog opens. Move the slider to the right/left to set the desired number of minutes. This parameter aims at avoiding memory overflow. One minute of recording corresponds to 675,840 Bytes of data.

4.4 Replay Recorded Data

To replay a set of data, launch the app (see 4.1) and press the REPLAY MODE. Press the PLAY icon to select the set of data to replay. A file browser opens. You will find your recordings in the Android device’s Internal Storage² under:

/Documents/RecoVIB_Feel_App/[SERIAL_NUMBER]/[RECORDING_DATE_TIME]

Select the {RECORDING_DATE_TIME}.recovib file to replay this recording.

Do not modify the file locations/names. If the above path format is not respected, the RECOVIB FEEL app will crash.

²You might need to make your Internal Storage visible to find the Documents folder. The operation depends on the Android device but you will most likely find a "Show Internal Storage" under the OPTIONS icon.
When replaying data, you have the buttons of a common remote control: **PLAY/PAUSE, STOP, SKIP and FAST-FORWARD.**

- **PLAY/PAUSE**: play or pause the replay
- **STOP**: stop the replay (e.g. to select another file to replay)
- **SKIP**: skip a user-defined period of time (see section 4.6.10)
- **FAST-FORWARD**: replay the data x2, x4, x8, x16 the normal speed

Once the full set of data has been replayed, it can be replayed again by pressing the **REPLAY** button.

4.5 Common Touch Gestures

- **Double Tap**: scale chart to the whole set of data in the X and Y directions
- **Long Press**: display a cursor that can be moved along the curves
- **Pinch/Zoom**: zoom in/out (if scaling is disabled only, see section 4.6.11)
- **Swipe up/down/right/left**: move in the chart (if scaling is disabled only, see section 4.6.11). When the streaming is ongoing (streaming mode or replay mode), the chart is automatically sliding to the right. It is then impossible to navigate to the left/right. Stop streaming (see section 4.2 or 4.4) to navigate freely
4.6 Modify Settings

From the main window, press the SETTINGS icon to open the settings dialog again. You can get basic information on the different parameters by pressing on the corresponding INFORMATION icon.

4.6.1 Switch From Time Domain to Frequency Domain

The RECOVIB FEEL App allows for real-time streaming of data in the time and in the frequency domain. To switch from one domain to another, you can either use the SWITCH in the settings dialog or use the T>F (F<T) short-cut in the main window.
4.6.2 Set the Measuring Range

The 2g/6g RECOVIB FEEL offers the possibility to choose between two different measuring ranges: ±2g and ±6g. To switch from one measuring range to another, stop the potentially ongoing streaming and open the settings dialog. Select the desired measuring range in the Range menu.

![Figure 13: Set the Measuring Range](image)

4.6.3 Set the Signal Processing

As shown in section 2, the RECOVIB FEEL App offers several signal processing options.

The RECOVIB FEEL is an acceleration sensor but the application makes it possible to derive velocity and displacement values based on the measured acceleration values. Hence, you can use the RECOVIB FEEL in three different modes:

1. Acceleration mode:
   - Raw acceleration data are displayed
   - High-pass (2nd order) filtered acceleration data are displayed. The cut-off frequency is defined by the user.
   - Low-pass (2nd order) filtered acceleration data are displayed. The cut-off frequency is defined by the user.
   - Band-pass (2nd order high-pass filter followed by a 2nd order low-pass filter) filtered acceleration data are displayed. The cut-off frequencies are defined by the user.

2. Velocity mode: a 2nd order high-pass filter is applied to the acceleration values and the filtered values are integrated by a 1st order low-pass filter. Both filters have the same user-selectable cut-off frequency.

3. Displacement mode: a 2nd order high-pass filter is applied to the acceleration values and the filtered values are double integrated by a 1st order low-pass filter. Both filters have the same user-selectable cut-off frequency.

To switch from one mode to another, stop streaming (see section 4.2 or 4.4) and open the settings dialog. Press the EXPAND MORE icon to expand the Signal Processing tab if needed and select the radio button corresponding to the desired mode.

To set the cut-off frequencies, press the EDIT icon.
4.6.4 Set the FFT-based Signal Analysis

When the frequency domain is selected (see section 4.6.1), the FFT-based Signal Analysis tab appears in the settings dialog (press the EXPAND MORE icon to expand the FFT-based Signal Analysis tab if needed). Three subsections can be identified:

**Window Function**  Windowing is used to minimize the effects of performing an FFT over a non integral number of cycles (Spectral Leakage). Three options are implemented:

- Uniform window should be used for broadband random signal (white noise) and closely spaced sine waves
- Hanning window should be used for sine waves or combination of sine waves, for narrowband random signal (vibration data) and for unknown content
- Flat top window should be used for sine wave (when amplitude accuracy is important)

Select the desired one by pressing on the corresponding radio button.

**FFT parameters**  To modify the FFT parameters, press the corresponding EDIT icon.

- FIFO Averaging Depth: if this parameter is set to x, the last x FFT frames are averaged with equal weighting and the result is displayed.
- FFT size: The length of the FFT input data frame in samples. The higher the value of this parameter, the longer the time "window" in which we observe the signal. The higher the value of this parameter, the longer the time between subsequent updates of the FFT spectrum and the larger the amount of numeric data that must be processed.
**FFT-based Computations**  The RECOVIB Feel App offers five FFT-based computations.

- Amplitude Spectrum (Peak)
- Amplitude Spectrum (RMS)
- Power Spectrum
- Power Spectral Density
- Amplitude Spectral Density

Select the desired one by pressing on the corresponding radio button.

### 4.6.5 Set the RMS Exponential Moving Average

The RMS Exponential Moving Average is an approximation of the RMS Linear Moving Average. It is computed as follows:

$$
\mu_k = \sqrt{(a(k))^2 - \mu(k-1)^2 + m + \mu(k-1)^2)}
$$

with

$$
m = 1 - \exp\left(\frac{-\Delta t}{\tau}\right)
$$

where $\Delta t$ is the sampling time [s] and $\tau$ is the time constant [s].

### Figure 16: Set the RMS Exponential Moving Average

### 4.6.6 Select the Values to Display

You can select the values to display on the chart by checking the **boxes** associated with the desired axes. The axes definition is in accordance with the reference axes of measures printed on the RECOVIB Feel.

### Figure 17: Select the Values to Display
4.6.7 Select the Acceleration Units

You can select the desired acceleration units ($g$ or $m/s^2$) by pressing the corresponding radio button. The conversion between $g$ and $m/s^2$ is done using the following value of $g: 9.80665 \ [m/s^2]$.

4.6.8 Set the Chart Visible Range

The chart visible range is the range of data in seconds that the chart viewport is focussing on. Setting this parameter to $x$ results in a moving viewport ranging from $(t - x)$ to $t$, where $t$ is the current time.

To modify the chart visible range, simply press the EDIT icon. **Note**: Setting a chart visible range smaller than the chart data range is a common sense rule (see section 4.6.9).
4.6.9 Set the Chart Data Range

The chart data range is the range of data in seconds that is kept in the chart. Setting this parameter to $x$ results in a chart data ranging from $(t - x)$ to $t$, where $t$ is the current time. To modify the chart data range, simply press the EDIT icon. Note: Setting a chart data range greater than the chart visible range is a common sense rule (see section 4.6.8).

The difference between the chart visible range and the chart data range is illustrated in Figure 21. For this example, the chart visible range and the chart data range are set to 10 and 20 seconds, respectively.

Figure 21: Difference between the chart visible range and the chart data range. **Left:** the viewport is 10 seconds wide (chart visible range). **Right:** after double-tapping to scale the chart to the entire set of data, the viewport is 20 seconds wide (chart data range).
4.6.10 Set the Skip Next Period of Time

As stated in section 4.4, a user-defined period of time can be skipped when replaying a set of data. To modify this period of time, simply press the EDIT icon. Note that you will only be able to modify this value in the replay mode (see section 4.4).

4.6.11 Set the Vertical Scaling Mode

When the vertical scaling is enabled, the chart is scaled in the Y direction to fit the chart visible range. To enable/disable the vertical scaling, you can either press the radio button in the settings dialog or use the SCALING short-cut in the main window.
5 MAINTAINING THE SENSOR

5.1 Calibration

- To ensure optimal measurements, the sensor needs to be regularly calibrated, at least every 2 years.
- Calibration is performed by Micromega Dynamics SA exclusively. Contact Micromega Dynamics SA customer service for further information.

5.2 Cleaning

- After use, clean the sensor with a dry cloth to keep it in good condition.
- If the device is dirty, clean the casing with a slightly damp cloth or a very mild cleaning product.
- Avoid wetting the connectors and cables.
- Never soak the device in water.

5.3 Precautions

- Never open the device. It does not contain any user changeable parts.
- Do not use the sensor in the presence of inflammmable liquids or gas. It is not intended for use in potentially explosive environments.
- Keep the device away from environments with high humidity and/or temperatures.
- Do not leave the device in a vehicle, or in locations where the temperature may exceed 60°C, such as behind a windscreen, a window or a rear window, where it could be exposed to direct sunlight for extended periods. This could cause damage to the device.
- Return the device to the Micromega Dynamics SA customer service should any problems be encountered.

6 CERTIFICATIONS

6.1 EMC Compliance

<table>
<thead>
<tr>
<th>Standard</th>
<th>Standard Reference</th>
<th>Limit Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiated Emission</td>
<td>EN 55016-2-3/CISPR 16-2-3</td>
<td>EN/IEC 61000-6-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30MHz-1GHz</td>
</tr>
<tr>
<td>Electrostatic discharge immunity</td>
<td>EN/IEC 61000-4-2</td>
<td>4kV by contact 2,4 &amp; 8kV in air Criterion B</td>
</tr>
<tr>
<td>Magnetic Field Immunity</td>
<td>EN/IEC 61000-4-8</td>
<td>30 A/m 50 &amp; 60 Hz Criterion A</td>
</tr>
<tr>
<td>Radiated, radio-frequency, electromagnetic field immunity</td>
<td>EN/IEC 61000-4-3</td>
<td>80 MHz - 1GHz 10V/m 1.4-2.0 GHz 3 V/m 2.0-2.7GHz 1V/m AM 80% 1kHz Criterion A</td>
</tr>
</tbody>
</table>

6.2 Dust & Water

<table>
<thead>
<tr>
<th>Standard</th>
<th>Standard Reference</th>
<th>Limit Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of Protection provided by enclosures (IP code)</td>
<td>IEC60529</td>
<td>IP67</td>
</tr>
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</table>
7 TECHNICAL SPECIFICATIONS

7.1 Measurement Characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>± 2g or ± 6g</th>
<th>± 15g</th>
<th>± 200g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower frequency limit</td>
<td></td>
<td></td>
<td>0Hz (DC)</td>
</tr>
<tr>
<td>Passband frequencies (per channel)</td>
<td></td>
<td></td>
<td>250Hz</td>
</tr>
<tr>
<td>Streaming rate (per channel)</td>
<td></td>
<td></td>
<td>1024 samples per second</td>
</tr>
<tr>
<td>Non-linearity</td>
<td>± 0.5% F.S.</td>
<td>± 0.3% F.S.</td>
<td>± 0.5% F.S.</td>
</tr>
<tr>
<td>Residual noise density</td>
<td>30 µg/√Hz</td>
<td>300 µg/√Hz</td>
<td>2600 µg/√Hz</td>
</tr>
<tr>
<td>Residual noise (250Hz bandwidth)</td>
<td>475 µg</td>
<td>4.75 mg</td>
<td>47 mg</td>
</tr>
<tr>
<td>Transverse sensitivity</td>
<td>± 2%</td>
<td>± 2%</td>
<td>± 2%</td>
</tr>
</tbody>
</table>

7.2 Environmental Characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>± 2g or ± 6g</th>
<th>± 15g</th>
<th>± 200g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature range</td>
<td>-10 .. 50 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature coefficient of sensitivity</td>
<td>±0.01 %/°C</td>
<td>±0.01 %/°C</td>
<td>±0.02 %/°C</td>
</tr>
<tr>
<td>Temperature drift of zero point</td>
<td>±0.4 mg/°C</td>
<td>±1 mg/°C</td>
<td>±30 mg/°C</td>
</tr>
<tr>
<td>Protection grade</td>
<td>IP67</td>
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7.3 Mechanical Data

<table>
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<tr>
<th>Model</th>
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<th>± 15g</th>
<th>± 200g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>46.8 x 30 x 23 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>45.3 g</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Case material</td>
<td>Aluminium</td>
<td></td>
<td></td>
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</table>

7.4 Autonomy

<table>
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<th>Model</th>
<th>± 2g or ± 6g</th>
<th>± 15g</th>
<th>± 200g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Power Consumption (idle)</td>
<td>39.15 mW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Power Consumption (streaming)</td>
<td>57.35 mW</td>
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7.5 Software

<table>
<thead>
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<th>± 200g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output format</td>
<td>Binary</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8 RECYCLING

Standards applicable to waste electrical and electronic devices state that they must be recycled.

If you are no longer using this material or if it cannot be repaired, do not throw it away in the usual household rubbish. Recycle these products in accordance with your country’s legal provisions.

9 CONFORMITY

This product has been subjected to tests in conformity with European directives.

Outside the EU, consult the competent local authorities before using the device.

10 SUPPORT

If you encounter any problems when installing or operating the equipment, you can obtain support:

- By contacting your local distributor
- By visiting the https://micromega-dynamics.com/
- By sending an email to info@micromega-dynamics.com
<table>
<thead>
<tr>
<th><strong>Manufacturer</strong></th>
<th><strong>Model</strong></th>
<th><strong>Notes</strong></th>
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<tbody>
<tr>
<td>Acer</td>
<td>Iconia Tab A200</td>
<td>Has a full-sized USB port next to a micro USB port</td>
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<td></td>
<td>Iconia Tab A210</td>
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</tr>
<tr>
<td></td>
<td>Iconia Tab A500</td>
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</tr>
<tr>
<td></td>
<td>Iconia A3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One 7 B1-760HD</td>
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</tr>
<tr>
<td>Ainol</td>
<td>Novo 7 Fire</td>
<td></td>
</tr>
<tr>
<td>Alcatel</td>
<td>One Touch POP C7 (7041D)</td>
<td></td>
</tr>
<tr>
<td>Amazon</td>
<td>Fire 2015</td>
<td>Note that the Play Store is not standard installed on this device</td>
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<tr>
<td>Archos</td>
<td>59 Xenon</td>
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</tr>
<tr>
<td></td>
<td>80 G9</td>
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<tr>
<td></td>
<td>101g9 turbo</td>
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<tr>
<td>Assistant</td>
<td>As-5431</td>
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<tr>
<td>Asus</td>
<td>Memo 7&quot;</td>
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<td>MemoPad ME172V / 176</td>
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<td>Padfone</td>
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<td>Slider SL101</td>
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<td>TF201</td>
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<td>TF300</td>
<td>Using an Asus USB adaptor directly on the tablet</td>
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<td>TF701T</td>
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<tr>
<td></td>
<td>Transformer Prime</td>
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<td></td>
<td>Zenfone 2</td>
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<td>Zenfone 3</td>
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<tr>
<td>Manufacturer</td>
<td>Model</td>
<td>Notes</td>
</tr>
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<td>--------------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>Zenfone 3 Max</td>
<td>Zenfone 5</td>
<td>Zenfone 6</td>
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<tr>
<td>Atheros</td>
<td>8&quot;</td>
<td></td>
</tr>
<tr>
<td>BlackBerry</td>
<td>Priv</td>
<td>Needs latest BB Priv update and may not work with all DACs. OPPO HA-2 is reported not to work with it</td>
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<tr>
<td>Bliss</td>
<td>S5</td>
<td></td>
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<td>Cat</td>
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<td>Nexus 5X</td>
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<td>Nexus 6</td>
<td>Nexus 6p</td>
<td></td>
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<tr>
<td>Nexus 7</td>
<td>May require a reboot with the device connected AND the language set to English-US (no kidding !). Google is said to solve this issue</td>
<td></td>
</tr>
<tr>
<td>Nexus 7 (2013)</td>
<td>May require a reboot with the device connected AND the language set to English-US (no kidding !). Google is said to solve this issue</td>
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<tr>
<td>Nexus 9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nexus 10</td>
<td>May require a reboot with the device connected AND the language set to English-US (no kidding !). Google is said to solve this issue</td>
<td></td>
</tr>
<tr>
<td>Pixel C</td>
<td>One report needing a USB hub</td>
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<td>HiMedia</td>
<td>TV Box Q16II</td>
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<td>Hisense</td>
<td>Sero 7 pro</td>
<td>USB debugging must be enabled</td>
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<td>Desire 500</td>
<td>Probably needs root to fix USB host configuration</td>
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<td>Desire 600</td>
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<td>Desire X</td>
<td>Warning : we also have a negative report for this one !</td>
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<td>Model</td>
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<td>One</td>
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<td>Seems to work on Android 4.2.2 and higher</td>
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<td>One E9+</td>
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<td>One Max</td>
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<td>One M9</td>
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<tr>
<td></td>
<td>One M9+ Supreme Camera Edition</td>
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<td>One X</td>
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<td>Huawei</td>
<td>Ascend G6-L11</td>
<td>WARNING: Huawei devices are one of the most troublesome devices, some not working at all</td>
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<td>Jiayu</td>
<td>G4 Advanced</td>
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<td>G4S</td>
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<td>Needs root to unlock USB host mode by the app &quot;USB Host Diagnostics&quot;</td>
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<td>G5S</td>
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<td>S3 Advanced</td>
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<td>Jide</td>
<td>Remix UltraTablet</td>
<td>Requires Remix OS2.0</td>
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<td>Kaiser Baas</td>
<td>Smart Media Player</td>
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<td>Lenovo</td>
<td>B6000 / Yoga Tablet 8</td>
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<td></td>
<td>B8000 / Yoga 10</td>
<td>Needs KitKat update</td>
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<td>IdeaTab A1000-F</td>
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<td>IdeaTab A3500-H</td>
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<td></td>
<td>IdeaTab S6000-F</td>
<td>Only when rooting and adding host permissions file?</td>
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<td>K3 Note</td>
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<td>Root required to fix USB host file</td>
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<td>Tab2 A10-70F</td>
<td>Also known as A7600-H, can produce glitches with USB 1.1 devices</td>
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<td>G Pad 7.0</td>
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<td>G Pad 8.3</td>
<td>NOTE: the 8.0 version does NOT work!</td>
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<td>G Pad II 8.0</td>
<td>Optimus G</td>
<td>Only with custom kernel supporting USB host!</td>
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<td>G Pad II 8.0</td>
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<td>G Pad II 8.0</td>
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<td>Minix</td>
<td>Neo X8 Plus</td>
<td>Needs root and you need to run USB Host Diagnostics to fix a USB host config file</td>
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<td>Motorola</td>
<td>Droid Ultra XT1080</td>
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<td>Moto E (2nd gen)</td>
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<td>Moto G</td>
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<td>Motorola</td>
<td>Moto G3 (2015)</td>
<td>Supplies little power to the USB bus, so a powered device or powered USB hub is usually needed. Seems to work with Drag-onFly Red though</td>
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<tr>
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<td>Moto G5 Plus</td>
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<td>Motorola</td>
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<td>Motorola</td>
<td>Razr M XT905/XT907</td>
<td>Note that this is not the same as the Droid Razr M which does not work!</td>
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<td>OTG needs to be enabled in the Android settings</td>
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<td>OTG needs to be enabled in the Android settings</td>
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<td>Note 3 Neo</td>
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<td>Galaxy Alpha</td>
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<td>Galaxy J5</td>
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<tr>
<td>Galaxy Mega 6.3</td>
<td>Causes glitching with some devices</td>
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<tr>
<td>Galaxy Nexus</td>
<td>Galaxy Note 1 I717</td>
<td>Note, only this special version of the Note 1 works!</td>
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<td>Galaxy Note 7</td>
<td>Needs a USB-C OTG cable</td>
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<td>Galaxy Note 8</td>
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<td>Galaxy Note 10.1</td>
<td>May need USB debugging turned on</td>
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<td>Galaxy Note 10.1 2013/2014 model</td>
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<td>Galaxy Note Pro 12.2</td>
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<tr>
<td>Galaxy R</td>
<td>Galaxy S3</td>
<td>Seems to do unnecessary things in background which can cause glitches</td>
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<tr>
<td>Galaxy S3 Neo</td>
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<tr>
<td>Galaxy S4</td>
<td>&lt;p&gt;Requires Android 4.3&lt;/p&gt;</td>
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<td>Samsung</td>
<td>Galaxy S4 active</td>
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<td>Galaxy S4 Zoom</td>
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<td>Galaxy S5</td>
<td>&quot;&lt;p&gt;May need a specific USB3 OTG cable, for example: <a href="http://www.amazon.com/dp/B00LN3AXWI/ref=cm_sw_r_udp_awd_gRWLub161MR7J">http://www.amazon.com/dp/B00LN3AXWI/ref=cm_sw_r_udp_awd_gRWLub161MR7J</a>&quot;</td>
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<td>Galaxy S5 Neo</td>
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<td>Galaxy Tab 1 7.7</td>
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<td>Galaxy Tab 1 10.1</td>
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<td>Samsung</td>
<td>Galaxy Tab 3 8&quot;</td>
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<td>Galaxy Tab 3 10.1</td>
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<td>Galaxy Tab 4 7&quot; LTE</td>
<td>Note that the non-LTE version does NOT work!</td>
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<td>Galaxy Tab 4 10.1</td>
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<td>Galaxy Tab A 10.1 (2016)</td>
<td>SM-T580</td>
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<td>Galaxy Tab Pro 8.4</td>
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<tr>
<td>Sony</td>
<td>Acro S NWZ-ZX1</td>
<td>Needs root to fix configuration problem</td>
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<td>Tablet S</td>
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<td></td>
<td>XPeria Active</td>
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<td></td>
<td>XPeria Arc S</td>
<td>May need LiveDock</td>
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<td>XPeria E3</td>
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<td></td>
<td>XPeria Ray</td>
<td>Some say it works, some say it does not. Perhaps it needs a powered usb hub?</td>
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<td>XPeria M</td>
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<td>XPeria mini ST15i</td>
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<td>XPeria Z1 compact</td>
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<td>XPeria Z1f</td>
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<td>XPeria Z2</td>
<td>Stopped working on Android 5. USB host was taken out of the Android configuration, may need root to fix</td>
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<td>XPeria Z2 tablet</td>
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<td>XPeria Z3</td>
<td>Works for some!</td>
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<td>XPeria Z3 Compact</td>
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<td>XPeria Z4</td>
<td>Under &quot;Xperia Connectivity&quot;, press &quot;USB Connectivity&quot; and then &quot;Detect USB Device&quot; before starting the app</td>
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<td>XPeria Z4 tablet</td>
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<td>-----------------------------------------------------------------------</td>
</tr>
<tr>
<td>THL</td>
<td>100s</td>
<td>Needs root to run the app &quot;USB host diagnostics&quot;, which fixes a misconfiguration of the device</td>
</tr>
<tr>
<td>Toshiba</td>
<td>AT830</td>
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<tr>
<td></td>
<td>Excite 10</td>
<td>Needs Airplane mode turned on</td>
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<tr>
<td></td>
<td>Thrive</td>
<td>Often problematic !</td>
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<tr>
<td>Tronsmart</td>
<td>Vega Elite s89</td>
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<tr>
<td>UMI</td>
<td>Cross C1</td>
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<td>Wolfgang</td>
<td>AT-AS50SE</td>
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<tr>
<td>Wiko</td>
<td>Cink King</td>
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<tr>
<td></td>
<td>Cink Peax 2</td>
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<tr>
<td></td>
<td>Darkside hell</td>
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<tr>
<td></td>
<td>Rainbow 3G</td>
<td></td>
</tr>
<tr>
<td>Xiaomi</td>
<td>Hong Mi</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mi-2</td>
<td></td>
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<tr>
<td></td>
<td>Mi-2S</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MI3</td>
<td>Tegra 4 version</td>
</tr>
<tr>
<td></td>
<td>MI3W</td>
<td>Snapdragon 800 version</td>
</tr>
<tr>
<td></td>
<td>MI Pad</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Red Mi</td>
<td></td>
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<tr>
<td></td>
<td>Red Mi 4 Prime</td>
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</tr>
<tr>
<td></td>
<td>Red Rice</td>
<td></td>
</tr>
<tr>
<td>XPX</td>
<td>XM74 Alero</td>
<td>May need root to fix USB host</td>
</tr>
<tr>
<td>Zopo</td>
<td>ZP980+</td>
<td>With june 2014 firmware or higher</td>
</tr>
<tr>
<td>ZTE</td>
<td>Axon 7</td>
<td></td>
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<tr>
<td></td>
<td>V965</td>
<td></td>
</tr>
<tr>
<td></td>
<td>V967S</td>
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<td></td>
<td>V987</td>
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</table>
## USB OTG: NOT WORKING ANDROID DEVICES

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acer</td>
<td>Gallant Duo</td>
<td>No USB host mode</td>
</tr>
<tr>
<td></td>
<td>Iconia B1</td>
<td>No USB host mode, this seems to be an older model, there may be more</td>
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<tr>
<td></td>
<td>Iconia Tab A100</td>
<td>B1 models</td>
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<tr>
<td>Ainol</td>
<td>Novo 7 elf II</td>
<td>No USB host mode</td>
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<tr>
<td></td>
<td>Novo 8 mini</td>
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<tr>
<td>Alcatel</td>
<td>OT 995</td>
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<tr>
<td>Archos</td>
<td>Familypad 2</td>
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<tr>
<td>Asus</td>
<td>MemoPad 7 HD</td>
<td></td>
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<tr>
<td></td>
<td>Zenpad 8</td>
<td>Causes severe glitching</td>
</tr>
<tr>
<td>BLU</td>
<td>Life One X</td>
<td>Probably lack of isochronous mode</td>
</tr>
<tr>
<td>BQ</td>
<td>Edison</td>
<td>Probably all models</td>
</tr>
<tr>
<td>Cube</td>
<td>U9GT2</td>
<td>Probably all Rockchip-based tablets do not work</td>
</tr>
<tr>
<td>Fly</td>
<td>FS405</td>
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<td>Flytouch</td>
<td>9</td>
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<tr>
<td>Freelander</td>
<td>PD90</td>
<td>Probably all Rockchip-based tablets do not work</td>
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<tr>
<td>Google</td>
<td>Droid 1</td>
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<tr>
<td>HTC</td>
<td>Rebound</td>
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<td></td>
<td>Sensation 4g</td>
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<tr>
<td>Huawei</td>
<td>Honor 7</td>
<td>Heavy glitching</td>
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<tr>
<td></td>
<td>Mate 7</td>
<td>No support for isochronous USB transfers?</td>
</tr>
<tr>
<td></td>
<td>Mate SCRR-L09</td>
<td>USB issues, wrong playback speed</td>
</tr>
<tr>
<td>MediaPad</td>
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<tr>
<td>Nova Lite</td>
<td>PRA-LX2</td>
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<tr>
<td></td>
<td>P8</td>
<td>Although the P8 detects USB devices, there have been too many reports</td>
</tr>
<tr>
<td></td>
<td>P8 Lite</td>
<td>of crashes/restarts, so we consider the P8 unreliable</td>
</tr>
<tr>
<td></td>
<td>P9 Lite</td>
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<tr>
<td>iOcean</td>
<td>x7</td>
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<tr>
<td>Jxd</td>
<td>800b</td>
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<tr>
<td>Manufacturer</td>
<td>Model</td>
<td>Notes</td>
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<tr>
<td>Kyocera</td>
<td>TORQUE SKT01</td>
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<td>Lenovo</td>
<td>P780</td>
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<tr>
<td>LG</td>
<td>G Pad 8.0</td>
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<td>LG</td>
<td>G Stylo</td>
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<td></td>
<td>K7</td>
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<tr>
<td>LG/Google</td>
<td>Nexus 4</td>
<td>No USB host mode, but ziddey franco kernel patch with the AOKP rom can activate it</td>
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<tr>
<td>Median</td>
<td>Life Tab e10310</td>
<td></td>
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<tr>
<td>Motorola</td>
<td>Droid Bionic</td>
<td>No USB host mode</td>
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<tr>
<td></td>
<td>Droid Razr M</td>
<td>No USB host mode</td>
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<tr>
<td>Nextbook</td>
<td>??</td>
<td>Older model</td>
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<tr>
<td>Odys</td>
<td>Tablet PC 4</td>
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<tr>
<td>Omega</td>
<td>7&quot;</td>
<td>Probably all</td>
</tr>
<tr>
<td>Onda</td>
<td>V819</td>
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<tr>
<td>Oppo</td>
<td>R5</td>
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<tr>
<td>Pipo</td>
<td>U3</td>
<td>Rockchip based</td>
</tr>
<tr>
<td>Prestigio</td>
<td>Geovision 7780</td>
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<tr>
<td></td>
<td>Multipad 8.0 Pro Duo</td>
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<td></td>
<td>Multipad 9.7 Ultra Duo</td>
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<tr>
<td>Samsung</td>
<td>Captivate Glide</td>
<td>No USB host mode</td>
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<tr>
<td></td>
<td>Galaxy A3</td>
<td>No USB host mode</td>
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<tr>
<td></td>
<td>Galaxy A5</td>
<td>No USB host mode</td>
</tr>
<tr>
<td></td>
<td>Galaxy Grand Prime</td>
<td>No USB host mode</td>
</tr>
<tr>
<td></td>
<td>Galaxy J3</td>
<td>Reports of both working and not working or glitching ; Unreliable</td>
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<tr>
<td></td>
<td>Galaxy Note 1</td>
<td></td>
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<tr>
<td></td>
<td>Galaxy Reverb</td>
<td>No USB host mode</td>
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<tr>
<td></td>
<td>Galaxy S</td>
<td>SGS-T959</td>
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<tr>
<td></td>
<td>Galaxy S1</td>
<td>No USB host mode</td>
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<td>Galaxy S2</td>
<td>No USB host mode</td>
</tr>
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<td></td>
<td>Galaxy S3 mini</td>
<td>No USB host mode</td>
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<tr>
<td></td>
<td>Galaxy S4 mini</td>
<td>No USB host mode</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Model</td>
<td>Notes</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>Galaxy Tab 2</td>
<td>Heavy glitching</td>
<td>(OMAP processor)</td>
</tr>
<tr>
<td>Galaxy Tab 3 7&quot;</td>
<td>No USB host</td>
<td>mode</td>
</tr>
<tr>
<td>Galaxy Tab 4 7&quot;</td>
<td>No USB host</td>
<td>mode</td>
</tr>
<tr>
<td>Galaxy Tab A 7&quot;</td>
<td>Only seems to</td>
<td>work with Android 6</td>
</tr>
<tr>
<td>Galaxy Young</td>
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<td>Sanei</td>
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<td>Sharp</td>
<td>Aquos Crystal 306SH</td>
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<td>Sony</td>
<td>XPeria E1</td>
<td></td>
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<tr>
<td></td>
<td>XPeria J</td>
<td>No USB host mode?</td>
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<tr>
<td></td>
<td>XPeria Ray</td>
<td>Some say it works, some don’t. Perhaps it needs a powered usb hub?</td>
</tr>
<tr>
<td>Sumvision</td>
<td>Cyclone voyager</td>
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<tr>
<td>Toshiba</td>
<td>AT200</td>
<td>Heavy glitching (OMAP processor)</td>
</tr>
<tr>
<td>Wayteq</td>
<td>xtab79qci</td>
<td>No isochronous mode in the kernel?</td>
</tr>
<tr>
<td>Xiaomi</td>
<td>Redmi Note 3</td>
<td>Massive USB errors</td>
</tr>
<tr>
<td>Yarvik</td>
<td>All?</td>
<td></td>
</tr>
<tr>
<td>Zopo</td>
<td>C3</td>
<td>Only playback?</td>
</tr>
</tbody>
</table>