

HDHomeRun HDHR3 ATSC 30-Second Reception Issue

(20150121)

Silicondust has identified a problem receiving ATSC broadcasts from a small number of broadcasters.

Affected models:

HDHR3-US, TECH3-US, TECH3-8US-2X4.

Affected broadcasters:

KABC (Los Angeles CA), KCNC (Denver CO), WHTM (Harrisburg PA), WLUK (Green Bay WI), WNYT (Albany NY).

Symptom:

Good signal lock, good signal strength, good signal quality, and good symbol quality when tuned. Signal lock is lost and/or symbol quality drops every 30 seconds repeating. Installing firmware from 20130117 (or older) would reduce the occurrence of the problem or fix the problem.

Solution/workaround:

- 1) Download and install the 20150121 (or newer) HDHomeRun software and firmware.
- 2) Run HDHomeRun Config GUI and tune the problem channel. Verify the symbol quality drops every 30 seconds.

- 3) From a cmd window run:

```
"C:\Program Files\Silicondust\HDHomeRun\hdhomerun_config" <device id> set /sys/8vsb_override "<channel number>"
```

For example, device ID 1038D786 channel 12:

```
"C:\Program Files\Silicondust\HDHomeRun\hdhomerun_config" 1038D786 set /sys/8vsb_override "12"
```

- 4) Tune the problem channel again in HDHomeRun Config GUI to verify the problem has been solved or reduced in occurrence. If already tuned to the problem channel, tune to a different channel and tune back again.

Multiple channels can be marked (up to three):

```
"C:\Program Files\Silicondust\HDHomeRun\hdhomerun_config" <device id> set /sys/8vsb_override "<channel number> <channel number> <channel number>"
```

Reading back the configuration:

```
"C:\Program Files\Silicondust\HDHomeRun\hdhomerun_config" <device id> get /sys/8vsb_override
```

Firmware details:

The 20130328 and newer firmware uses demodulator firmware v2.7.84 which improves performance in some cases. The older HDHomeRun firmware uses demodulator firmware v2.7.47 which handles this specific transmission problem better than v2.7.84.

The 20150121 (and newer) firmware uses demodulator firmware v2.7.84 by default, switching to demodulator firmware v2.7.47 if tuning a channel listed in the 8vsb_override list.