

# RB-2 – HYBRID (900 MHZ + 5 GHZ)

[vc\_row][vc\_column][vc\_single\_image image="446" img\_size="full"]The RB-2 Hybrid is a ready to go out of the box H.264 Transmitter system that contains two frequency modulators. Instead of our [RB-2 5GHZ](#), which contains a 5 GHZ Modulator only, the RB-2 Hybrid has two frequency modulators. The first modulator operates in 900-928 MHZ Band and the other modulator is a 5 GHZ one. The 900 MHZ Band is a licensed band in most of european countries, but used a lot by major telco companies. For US Customers we have valid FCC-ID to use in in the whole united states without requiring a license. The 900 License Band is only allowed in the US Only or for companies who have the right license. The 5 GHZ is a license free band that can be used worldwide. The 900 MHZ is the robust modulator that we have for signal transmission thru several walls or buildings.

## **Connecting the 900 MHZ Modulator**



To connect the 900 MHZ Modulator to the encoder, please use **ONLY** the R-BUS Cable from rebotnix. This cable has an electronic to connect the 900 MHZ Modulator to the encoder. No other cable will work with the RB-2 Hybrid.

When you connected the cable, put the V-Mount battery on both side, receiver and transmitter. When everything is connected you hear a short “beep-beep” sound that means everything is ready for booting. When everything is right you see the connecting LED’s were blinking. [vc\_column\_text][vc\_column][vc\_column width="1/2"] [vc\_column\_text] **Connecting the 5 GHZ Modulator**



To connect the 5 GHZ, simple disconnect the red R-BUS Cable and switch on the DIP Connectors as you need for the wifi channels in the 5 GHZ band. To control the bitrate of the encoder, please connect the device with your LAN cable that we ship with the RB-2 and connect to the Webinterface. We ship every product with details IP Address so that you simply can connect to the transmitter or receiver. [vc\_column\_text][vc\_column][vc\_row][vc\_row][vc\_column][vc\_column\_text] **RB-2 Hybrid Specification**

- 900 MHZ Modulator include
- 5 GHZ Modulator include
- Selectable Channels in two bands (900 MHZ and 5GHZ)
- H.264 Encoder up to 50 Mbit Encoding Bitrate
- H.264 Baseline Profile Level 4.2 with de-interlacer
- H.265 Encoder up to 32 Mbit Encoding Bitrate
- 40 Milliseconds encoding delay
- 800 Meters range in 5GHZ
- Serval Kilometer / Miles with 900 MHZ in LOS (Line of Sight)

- In 5 GHZ low signal thru walls (LOS)
- In 900 MHZ strong signal thru several walls (NLOS)
- SD-SDI, HD-SDI, 3G-SDI Input and Output
- Transmitter SDI Input and looped Output
- **Video Resolutions**
  - 480i59.94 (NTSC)
  - 480i60 (861-D)
  - 720p23.98, 720p24, 720p25, 720p59.94,720p60
  - 1080i50, 1080i59.94, 1080i60, 1080PsF23.98,1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30, 1080p23.98, 1080p24, 1080p25, 1080p29.97
  - 1080p30, 1080p50, 1080p59.94, 1080p60
  - SDTV Digital Signal/Data Serial Digital Interface
  - RTSP Server
  - MPEGTS Server
- H.264 Decoder up to 45 Mbit Bitrate

### **Audio Resolutions**

- SDI embedded audio: 48kHz 16-bit stereo linear PCM

### **Power options**

- DC 7V-17V, 12 Watt

### **RB-2 – 5GHZ Modulator Specification**

- 200 Milliwatt output power

### **RB-2 – 900 MHZ Modulator Specification**

- 500 Milliwatt output power

Encoder and Decoder Parameters were adjustable over Webinterface. [/vc\_column\_text][[/vc\_column]][/vc\_row]