Unit Overview

This is an overview of the hardware and broad capabilities of the sygnalTRX unit.

- Hardware Overview

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Hardware Capabilities

Total Video Inputs: 2 (1 HDMI, 1 SDI) HDMI at 4kp60, SDI at 1080p60
Total Video Outputs: 3 (2 HDMI, 1 SDI) HDMI at 4kp60, SDI at 1080p60
Audio Outputs: 2 (via 1x TRS 3.5mm Jack)
Ethernet: 2x 2.5G Ethernet ports
Wifi: Intel AX210 (wifi 6E)

Total Hardware Accelerated Encoders: 8 (4 user defined, 4 SYGNAL defined).
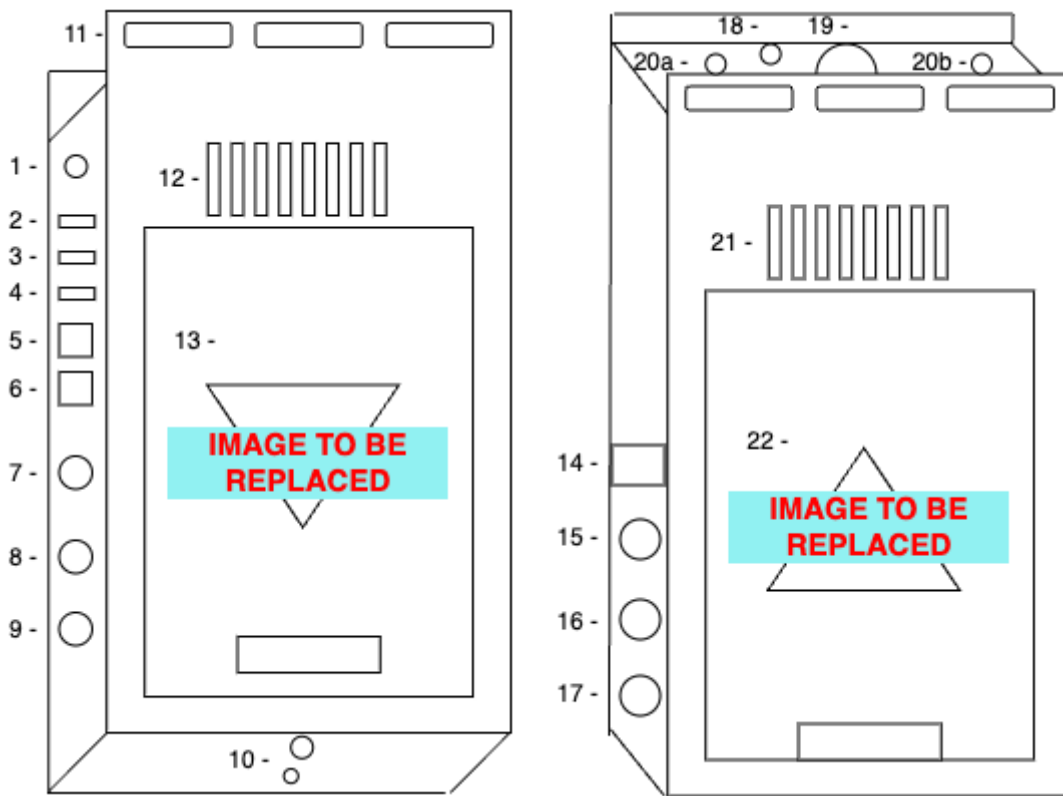Total Hardware Accelerated Decoders: 4

Power: Via 11-14v V Mount Supply or by 5-20V DC barrel jack. Minimum 20W supply required.

Tally: Via TRRS 3.5mm Jack on top of unit. *Sleeve: Ground Tip: Red Ring 1: Green Ring 2: Blue*

Dimensions: Width =   Height =   Depth =

Hardware Diagram

The **sygnalTRX 2x3** is a 2 input, 3 output wireless network encoder/decoder with additional add-on features such as teleprompting. Below is a broad overview of the hardware.

1 - Stereo Audio out	2 - HDMI Out 1	3 - HDMI Out 2	4 - HDMI In	5 - Ethernet 1
6 - Ethernet 2	7 - SDI IN	8 - SDI Out	9 - Reference In	10 - 1/4'' and 3/8'' threads
11 - Cable Tie Slots	12 - Cooling Vents	13 - V Mount Plate	14 - OLED Display	15 - Record Button
16 - Identify Button	17 - User Button	18 - Tally TRRS Jack	19 - Power Button	20 - Antenna SMAs
21 - Cooling Vents	22 - V Mount Plate	**TBI - DC Barrel Jack**		

The OLED Display

The OLED display shows useful information such as current wifi status and strength, IP addresses of network interfaces, V Mount battery voltage and record status information such as time remaining to record. It also shows device stats such as temperature, CPU and RAM usage to allow engineers to monitor the status of the units.

The Buttons

The sygnalTRX 2x3 has three large buttons on the left hand side which allow for quick operation of commonly needed functions without having to use the web GUI or sygnalCONTROL.

The first button is record. When pressed, it will illuminate and pulse red, indicating that the unit is now recording. The OLED display will show the current filename and the remaining record time on disk.

The second button is identify. When short - pressed, the unit's buttons will do a "chase" indicating that the identify function is running. Simultaneously, all instances of this unit's web GUI will flash brightly, and the unit will move to the top of the device list in sygnalCONTROL and flash, making it clear which unit is being identified.
When long-pressed (button held for longer than 5 seconds), the device will enter Access Point mode. This will allow an engineer to connect to the device directly via its own wifi network, enabling them to do first time configuration such as set the SSID and password.

The third button is a user-defined button. The function of this button can be defined in the GUI's SYSTEM page, or in sygnalCONTROL. Functions include starting/stopping a particular stream, blanking the teleprompter, rotating an output and more.