

# TOPANGA



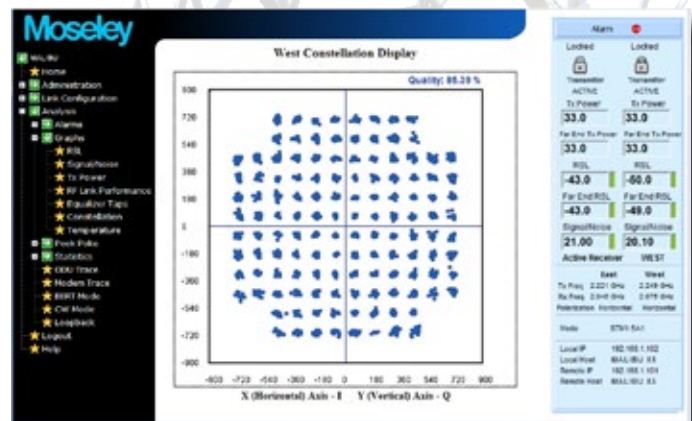
## Digital Composite STL

Topanga is the World's First Open Architecture Digital Composite (MPX) RF Studio Transmitter Link. Topanga's Digital platform offers greater than 20 dB System Gain Advantage over old Analog Composite systems. Topanga's Open Architecture offers for Customization and Adaptability to changing Requirements and Technologies.

### FEATURES

- Five Watt Transmitter Output for Robust Operation
- User adjustable 16, 32, 64, 128 QAM rate for improved Receive Threshold
- Amazing Audio Specifications: SNR -85dB, Distortion .03%; Stereo Separation > 65 dB
- Simplex Ethernet Channel supports HD Radio Data Stream
- RS-232 Channels for RDS Data
- Full Metering, Diagnostics and Control of all Parameters from Front Panel
- Web Browser Interface for Remote Monitoring, Diagnostics and Control of Radio

### WEB BROWSER USER INTERFACE



## Transmitter

## Receiver

<b>Frequency</b>	All worldwide STL bands from 180 MHz to 2.2 GHz	All worldwide STL bands from 180 MHz to 2.2 GHz
<b>Power Out/Threshold</b>	+37 dBm standard, +34 dBm (1.7 GHz)	-90 dBm @ 10e-4 BER 32 QAM (500 kHz) -88 dBm @ 10e-4 BER 64 QAM (500 kHz) -90 dBm @ 10e-4 BER 64 QAM (230 kHz) -88 dBm @ 10e-4 BER 128 QAM (230 kHz)
<b>Step Size</b>	25 kHz	25 kHz
<b>Channel Bandwidth</b>	230 or 500 kHz user definable	230 or 500 kHz user definable
<b>Monitoring</b>	Fwd, Rev Power, Tx Lock, Radiate	RSL, BER, Rx Lock

## Composite Interface

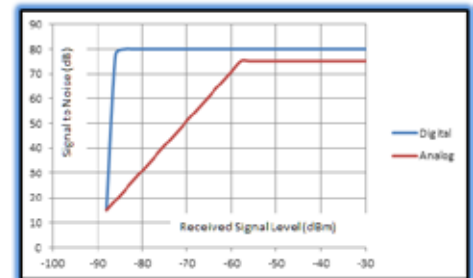
<b>Bandwidth</b>	500 kHz 32 QAM Mode, 230 kHz in 128 QAM mode
<b>Input Level</b>	3.5 Vp-p for 100% modulation; 4.0 Vp-p clipped
<b>Input Impedance</b>	6k Ohms, single-ended, BNC
<b>Output Level</b>	3.5 Vp-p for 100% modulation
<b>Output Impedance</b>	75 Ohms. Single-ended, BNC
<b>Output Load</b>	75 Ohms or greater, maximum load capacitance 0.047 microfarads. Maximum recommended cable length 100 ft RG-58A/U
<b>Signal-to-Noise Ratio</b>	> 85 dB (de-emphasized, 20 Hz – 15 kHz bandwidth, referenced to 100% modulation, unweighted).
<b>Distortion</b>	≤ 0.05% THD (de-emphasized, 20 Hz – 15 kHz bandwidth, referenced to 100% modulation, unweighted).
<b>Stereo Separation</b>	>70 dB, 30 Hz – 15 kHz (referenced to 100% modulation = 3.5Vp-p) (for 500 kHz System)
<b>Crosstalk-Linear</b>	> 80 dB, main channel to sub-channel or sub-channel to main channel (referenced to 100% modulation).
<b>Crosstalk-Non-Linear</b>	> 80 dB, main channel to sub-channel or sub-channel to main channel (referenced to 100% modulation).

## Data Interfaces

<b>Ethernet Interface</b>	10/100/1000 Base-T, RJ45
<b>Data Interface</b>	9-pin D male, RS-232 levels
<b>Data Rates</b>	Async, 300-9600 bps selectable



Topanga Rear View



Difference between Digital and Analog Signal to Noise.