

STUDIO TO TRANSMITTER LINK MT/MR PLATINUM



The radiolink (Studio to Transmitter Link) **MT/MR PLATINUM** consists of both a transmitter and a receiver. The 20W transmitter works within 170-960MHz frequencies in 20MHz sub-bands, it is externally synthesized and it is also controlled by a 25KHz steps microprocessor (10KHz optional).

MAIN ADVANTAGES

- Balanced mono, stereo (MPX) and 3SCA inputs.
- LCD reading of frequency (6 digits), direct/reflected power, modulation level and component of the pilot signal (19KHz) while transmitting.
- SWR fold-back protection.
- The receiver has double conversion and externally synthesized with the same characteristics as the transmitter.

GENERAL CHARACTERISTICS

TRANSMITTER MT PLATINUM	
RF OUTPUT POWER	20W
FREQUENCY ERROR	<-2.5ppm
FREQUENCY DRIFT	<1ppm/year
MAX. REFLECTED POWER SUPPORTED	2W
HARMONICS EMISSION	<-60dBc
SPURIOUS EMISSION	<-70dBc, typical -80dBc
RF OUTPUT	Connector N(F), Impedance 50Ω
AUDIO/MPX INPUT LEVEL	-3.5 to 12.5dBm at ±75KHz deviation
AUDIO/MPX INPUT	10kΩ/600Ω, balanced/unbalanced
AUDIO INPUT CONNECTORS	XLR(H)
COMMON MODE REJECTION	>50dB, typical>60dB (20-15000Hz)
AUX. CHANNEL INPUT LEVEL	-12.5 to 3.5dBm at ±7.5KHz deviation -24 to 8dBm at ±2KHz deviation
AUX. CHANNEL INPUT	Connector BNC, Impedance 10KΩ
LF MONITOR OUTPUT	0 to 10dBm at ±7.5KHz deviation

PRE-EMPHASIS TIME CONSTANT	0/50/75 μ s \pm 2%
MODULATION DISTORTION (30-15000Hz)	<0.02% a 75KHz deviation
STEREO CROSS-TALK	>50dB (100-5000Hz) >45dB (50-1500Hz)
AUDIO CHANNELS RESPONSE	30Hz-15KHz \pm 0.1dB
OUT OF BAND AUDIO ATTENUATION (F\geq19KHz)	>50dB
DEVIATION LIMITER	Adjustable between 0 y -7.1dB
MPX COMPOSITE RESPONSE	10Hz-100KHz \pm 0.1dB
AUX. CHANNEL RESPONSE	10-100KHz \pm 0.2dB
DIMENSIONS	2 standard rack units of 19"

RECEIVER MR PLATINUM	
NOISE FIGURE	\leq 10dB
IMAGE FREQUENCY REJECTION	\geq 50dB, typical 60dB
DYNAMIC SELECTIVITY	>+10dB @ δ f=300kHz >+35dB @ δ f=500kHz
AM SUPPRESSION	>45dB
USABLE INPUT LEVEL	-90 a -10dBm (7 μ V-70mV)
TYPICAL INPUT SENSIBILITY (SIGNAL/NOISE=60dB)	-90dBm (7 μ V) mono -70dBm (70 μ mV) stereo
FI MONITOR OUTPUT	10.7MHz/0dBm
WIDE BAND DEMODULATED OUTPUT RESPONSE	15Hz-120kHz +0.1/-3dB
WIDE BAND DEMODULATED OUTPUT LEVEL	+6dBm
MPX OUTPUT LEVEL	-1.5 to +12dBm, 0.5dB/step
MPX OUTPUT RESPONSE	15Hz-67kHz +0.1/-0.5dB
MONO OR STEREO DECODED RESPONSE	30Hz-15kHz \pm 0.1dB
OUT OF BAND MONO OR STEREO AUDIO RESPONSES (F\geq19KHz)	>50dB
DE-EMPHASIS TIME CONSTANT	0/50/75 μ s \pm 2%
MODULATION DISTORTION AT 1KHz (100% DEVIATION)	\leq 0.1%, typical 0.03% (mono) \leq 0.3%, typical 0.2% (1 stereo channel)
STEREO CROSS-TALK	>50dB (100-5000Hz) >45dB (50-15000Hz)
DIMENSIONS	2 standard rack units of 19"

RADIOLINK MT/MR PLATINUM	
FREQUENCY RANGE	200-960MHz, in 20MHz sub-bands
MODULATION	FM, 75KHz peak deviation 180K F3E mono 256K F3E stereo
SYNTHESIS STEP	25KHz (10KHz optional)
COMPOSITE MPX OUTPUT RESPONSE	15KHz-67KHz +0.1/-0.5dB <-6dB at 100KHz <-20dB at 125KHz
MONO/STEREO DECODED RESPONSE	30Hz-15KHz \pm 0.2dB
SIGNAL/NOISE RATIO (30-20KHz rms)	>70dB, typical 76 (mono) >66dB, typical 72 (stereo)
MODULATION DISTORTION (100% DEVIATION) AT 1KHz	\leq 0.1%, typical 0.03% (mono) \leq 0.3% typical 0.2% (1 stereo channel)
MODULATION DISTORTION (100% DEVIATION) AT 30-7500Hz	\leq 0.25%, typical 0.12% (mono) \leq 0.3% typical 0.2% (1 stereo channel)
STEREO CROSS-TALK (TYPICAL)	>50dB (400-10000Hz) >45dB (100-15000Hz)
INPUT/OUTPUT SIGNALS	>50dB (400-10000Hz) >45dB (100-15000Hz)
POWER SUPPLY	Alarm, RF/LF disable, low RF field, on the air, RS232 for monitoring and control
POWER SUPPLY	100-240VAC, 47-63Hz
OPERATING TEMPERATURE RANGE	0-35°C recommended -10 a 45°C maximum