

STUDIO TO TRANSMITTER LINK MT/MR PLATINUM

The OMB radiolink (Studio to Transmitter Link) **MT/MR PLATINUM** is composed by a transmitter and a receiver. The 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 (10W at 900MHz band)
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(F)
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 10K Ω
LF MONITOR OUTPUT	0 to 10dBm at ± 7.5 KHz 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 ± 0.1 dB
OUT OF BAND AUDIO ATTENUATION (F≥ 19KHz)	>50dB
DEVIATION LIMITER	Adjustable between 0 and -7.1dB
MPX COMPOSITE RESPONSE	10Hz-100KHz ± 0.1 dB
AUX. CHANNEL RESPONSE	10-100KHz ± 0.2 dB
DIMENSIONS	2 standard rack units of 19"

RECEIVER MR PLATINUM	
NOISE FIGURE	≤ 10 dB
IMAGE FREQUENCY REJECTION	≥ 50 dB, typical 60dB
DYNAMIC SELECTIVITY	>+10dB @ $\delta f = 300$ kHz >+35dB @ $\delta f = 500$ kHz
AM SUPPRESSION	>45dB
USABLE INPUT LEVEL	-90 to -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 ± 0.1 dB
OUT OF BAND MONO OR STEREO AUDIO RESPONSES (F≥ 19KHz)	>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"

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RADIOLINK MT/MR PLATINUM	
FREQUENCY RANGE	200-960MHz, in 20MHz sub-bands
MODULATION	FM, 75KHz peak deviation 180K F3E mono 256K F8E stereo 302K F8E subcarrier
SYNTHESIS STEP	25KHz (10KHz optional)
COMPOSITE MPX OUTPUT RESPONSE	15KHz-67KHz +0.1/-0.5dB <-6dB at 100KHz <-20dB at 125KHz
MONITOR OUTPUT WIDE-BAND RESPONSE	15KHz-100KHz +0.1/-1.5dB -3dB typical at 125KHz -6dB typical at 160KHz
MONO/STEREO DECODED RESPONSE	30Hz-15KHz ± 0.2 dB
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	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 to 35°C recommended -10 to 45°C maximum

** The images and/or technical specifications are subject to change without previous notice.*

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