

STUDIO TO TRANSMITTER LINK MT/MR PLATINUM >1GHz

The OMB radiolink **MT/MR PLATINUM >1GHz** (Studio to Transmitter Link) is made up by a transmitter and a receiver. The 5W transmitter works in 20MHz sub-bands; it is externally synthesized and also controlled by a 100KHz steps microprocessor.



MAIN ADVANTAGES

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

GENERAL CHARACTERISTICS

TRANSMITTER MT PLATINUM >1GHz	
FREQUENCY ERROR	<2.5ppm (3' from ON)
FREQUENCY STABILITY	<1ppm/year
RF OUTPUT POWER	5W
MAXIMUM REFLECTED POWER ALLOWED	1W
HARMONICS	<-60dBc
SPURIOUS	<-70dBc, typical -80dBc
RF OUTPUT IMPEDANCE	Connector N(F), Impedance 50Ω
AUDIO/MPX INPUT LEVEL	-3.5 to 12.5dBm at ±75KHz deviation
AUDIO/MPX INPUT IMPEDANCE	10kΩ/600Ω, balanced/unbalanced
S/N RATIO (30-20000Hz rms)	Mono: >70dB (76dB typical) Stereo: >66dB (72dB typical)
MODULATION DISTORTION (30-15000Hz)	<0.02% at 75KHz deviation

STEREO SEPARATION	>50dB (100-5000Hz) >45dB (50-1500Hz)
AUDIO CHANNEL FREQUENCY RESPONSE	30-15000Hz ± 0.1 dB
AUDIO OUT-OF-BAND ATTENUATION	>50db at $f \geq 19$ KHz
COMMON MODE REJECTION	>50dB, typical 60dB (20-15000Hz)
AUDIO INPUT CONNECTOR	XLR(F)
AUX. CHANNEL INPUT LEVEL	-12.5 to 3.5dBm at ± 7.5 KHz deviation -24 to 8dBm at ± 2 KHz deviation
AUX. CHANNEL INPUT CONNECTOR	Connector BNC, Impedance 10K Ω
MPX/MONITOR OUTPUT LEVEL	0 to 10dBm at ± 7.5 KHz deviation
PRE-EMPHASIS TIME CONSTANT	0/50/75 μ s $\pm 2\%$
MPX INPUT FREQUENCY RESPONSE	10Hz-100KHz ± 0.1 dB
AUX. INPUT FREQUENCY RESPONSE	10-100KHz ± 0.2 dB
INPUT/OUTPUT LINES	Alarm, RF/LF disable, direct power, on the air, RS232 for monitoring and control
CONSUMPTION (MAINS)	50W maximum at 90-250VAC
CONSUMPTION (BATTERY)	1.8A at 24 VCC
DIMENSIONS	2 standard rack units of 19"
WEIGHT	8Kg

RECEIVER MR PLATINUM >1GHz

NOISE FIGURE	≤ 10 dB
IMAGE FREQUENCY SUPPRESSION	≥ 50 dB, typical 60dB
DYNAMIC SELECTIVITY	>+10dB @ $\delta f = 300$ kHz >+35dB @ $\delta f = 500$ kHz >+45dB @ $\delta f = 1.0$ MHz
AM SUPPRESSION	>45dB
USEFUL RF LEVEL	-90 to -10dBm (7 μ V-70mV)
TYPICAL SENSITIVITY (SIGNAL/NOISE=60dB)	-90dBm (7 μ V) mono -70dBm (70 μ mV) stereo
FI MONITOR OUTPUT	10.7MHz/0dBm
FREQUENCY RESPONSE IN DEMODULATED LB OUTPUT	15Hz-120kHz +0.1/-3dB
DEMODULATED LB OUTPUT LEVEL	+6dBm
MPX OUTPUT LEVEL	-1.5 to +12dBm, 0.5dB/step
MPX OUTPUT FREQUENCY RESPONSE	15Hz-67kHz +0.1/-0.5dB
MONO/STEREO FREQUENCY RESPONSE	30Hz-15kHz ± 0.1 dB
MONO OR STEREO OUT OF BAND ATTENUATION	>50dB at $f \geq 19$ KHz
DE-EMPHASIS TIME CONSTANT	0/50/75 μ s $\pm 2\%$
S/N RATIO (30-20000Hz rms)	Mono: >70dB (76dB typical) Stereo: >66dB (72dB typical)
MODULATION DISTORTION AT 1KHz (100% DEVIATION)	$\leq 0.1\%$, typical 0.03% (mono) $\leq 0.3\%$, typical 0.2% (1 stereo channel)
TYPICAL STEREO SEPARATION	>50dB (100-5000Hz) >45dB (50-15000Hz)

INPUT/OUTPUT LINES	RF disable, RF low field, alarm, modulation absence, RS232 for monitoring and control
CONSUMPTION (MAINS)	20W maximum at 90-250VAC
CONSUMPTION (BATTERY)	0.8A at 24 VCC
DIMENSIONS	2 standard rack units of 19"
WEIGHT	6.5Kg

RADIOLINK MT/MR PLATINUM >1GHz	
FREQUENCY RANGE	1-2GHz
MODULATION	FM, 75KHz peak deviation 180K F3E mono 256K F3E stereo
FREQUENCY TUNING STEPS	100KHz
MPX OUTPUT FREQUENCY RESPONSE	15KHz-67KHz +0.1/-1.5dB -6dB typical at 100KHz -20dB typical at 125KHz
OUTPUT FREQUENCY RESPONSE BROADBAND MONITOR	15KHz-67KHz +0.1/-1.5dB -3dB typical at 125KHz -6dB typical at 160KHz
MONO/STEREO FREQUENCY RESPONSE	30Hz-15KHz \pm 0.2dB
S/N RATIO (30-20KHz rms)	>70dB, typical 76 (mono) >66dB, typical 72 (stereo)
DISTORTION (100% DEVIATION) AT 1KHz	\leq 0.1%, typical 0.03% (mono) \leq 0.1% typical 0.03% (1 stereo channel)
DISTORTION (100% DEVIATION) AT 30-7500Hz	\leq 0.25%, typical 0.12% (mono) \leq 0.3% typical 0.20% (1 stereo channel)
TYPICAL STEREO SEPARATION	>50dB (400-10000Hz) >45dB (100-15000Hz)
INPUT/OUTPUT LINES	Alarm, RF/LF disable, RF low fields, RS232 for monitoring and control
POWER SUPPLY REQUIREMENTS	95-250VAC, 50-60Hz 22-28VDC
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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