

## 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

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

**RECEIVER MR PLATINUM >1GHz**

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

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

**RADIOLINK MT/MR PLATINUM >1GHz**

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