

ANALOG UP CONVERTERS (TRANSMITTERS)

AML-TX



The analog transmitters proposed by PM Microwave are devices designed to be used both in analog and digital broadcasting. They are available in both 19" rack for indoor use and waterproof box for outdoor use. The available versions work in the 7 GHz, 10 GHz, and 14 GHz bands, with output powers of 500 mW (+27 dBm) or 1 W (+30 dBm).

The internal oscillators designed by PM Microwave and used in the conversion stages are characterized by high levels of stability and spectral purity, and allow to fully support digital modulations.

TECHNICAL SPECIFICATIONS*

*specifications may be changed in accordance with the technical department

TRANSMITTERS IF input frequency Input level Input impedance Input return loss	AML-T7 typ. 70 MHz typ10 dBm 50 Ω > 18 dB	AML-T10 typ. 70 MHz typ10 dBm 50 Ω > 18 dB	AML-T14 typ. 70 MHz typ10 dBm 50 Ω > 18 dB
RF output frequency Output level	6.8 ÷ 7.2 GHz +27 dBm / +30 dBm	10.3 ÷ 10.7 GHz +27 dBm / +30 dBm	14.0 ÷ 14.5 GHz +27 dBm / +30 dBm
RF structure Frequency stability L.O.	PLL synthesized double conversion ± 5 ppm standard	PLL synthesized double conversion ± 5 ppm standard	PLL synthsized double conversion ± 2.5 ppm standard
Phase Noise L.O. L.O. steps System gain	± 2 ppm HS option -102 dBc/Hz @ 100 kHz typ. 1 MHz 35 dB < -60 dBc	± 2 ppm HS option -96 dBc/Hz @ 100 kHz typ. 1 MHz 35 dB < -60 dBc	± 1 ppm HS option -102 dBc/Hz @ 100 kHz typ. 1 MHz 35 dB < -60 dBc
Spurious emissions GENERAL	< -OU	< -00 abc	< -00 dbc
Power supply	110 ÷ 240 Vac (indoor) 12 ÷ 15 Vdc (outdoor)	110 ÷ 240 Vac (indoor) 12 ÷ 15 Vdc (outdoor)	110 ÷ 240 Vac (indoor) 12 ÷ 15 Vdc (outdoor)
Power consumption Operating temperature Storage temperature Storage relative humidity Dimensions	typ. 20 W -10 ÷ +45 °C -20 ÷ +80 °C 10% ÷ 80% Rack 19" 1U (483 × 45 × 270 mm, indoor) Custom box	typ. 20 W -10 ÷ +45 °C -20 ÷ +80 °C 10% ÷ 80% Rack 19" 1U (483 × 45 × 270 mm, indoor) Custom box	typ. 20 W -10 ÷ +45 °C -20 ÷ +80 °C 10% ÷ 80% Rack 19" 1U (483 × 45 × 270 mm, indoor) Custom box
Protection degree	(220 × 96 × 228 mm, outdoor) IP50 (indoor)	(220 × 96 × 228 mm, outdoor) IP50 (indoor)	(220 × 96 × 228 mm, outdoor) IP50 (indoor)

IP67 (outdoor)

IP67 (outdoor)

IP67 (outdoor)

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