

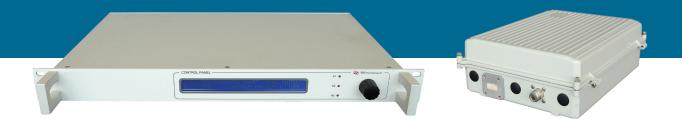
ANALOG DOWN CONVERTERS (RECEIVERS)

AML-RX

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The analog receivers are typically used in both analog and digital broadcasting, for point-to-point and point-to-multipoint applications. Each receiver is usually combined with the transmitter of the same series to form the desired radio link. Available in both 19" rack for indoor use and waterproof box for external use, analog receivers work in the 7 GHz, 10 GHz and 14 GHz bands, but can be customized as well according to the specific application.

As inside the transmitters, also in analog receivers the internal oscillators (designed by PM Microwave and used in the conversion stages) are characterized by high values of stability and spectral purity, and allow to fully support digital modulations.

TECHNICAL SPECIFICATIONS*

*specifications may be changed in accordance with the technical department

| RECEIVERS | AML-R7 | AML-R10 | AML-R14 |
|---|---|---|--|
| RF input frequency | 6.8 ÷ 7.2 GHz | 10.3 ÷ 10.7 GHz | 14.0 ÷ 14.5 GHz |
| Input level | -70 ÷ -25 dBm | -70 ÷ -25 dBm | -70 ÷ -25 dBm |
| IF output frequency | typ. 70 MHz | typ. 70 MHz | typ. 70 MHz |
| Ouput level | max. +10 dBm | max. +10 dBm | max. +10 dBm |
| Ouput impedence | 50 Ω | 50 Ω | 50 Ω |
| Output return loss | > 18 dB | > 18 dB | > 18 dB |
| RF structure Frequency stability L.O. L.O. steps System gain Noise figure | PLL synthesized double conversion ± 5 ppm standard ± 2 ppm HS option typ. 1 MHz 35 dB 2 dB typ. | PLL synthesized double conversion ± 5 ppm standard ± 2 ppm HS option typ. 1 MHz 35 dB 3 dB typ. | PLL synthsized double conversion ± 2.5 ppm standard ± 1 ppm HS option typ. 1 MHz 35 dB 2 dB typ. |
| GENERAL Power supply Power consumption Operating temperature Storage temperature Storage relative humidity Dimensions Protection degree | 110 ÷ 240 Vac (indoor) | 110 ÷ 240 Vac (indoor) | 110 ÷ 240 Vac (indoor) |
| | 12 ÷ 15 Vdc (outdoor) | 12 ÷ 15 Vdc (outdoor) | 12 ÷ 15 Vdc (outdoor) |
| | typ. 10 W | typ. 10 W | typ. 10 W |
| | -10 ÷ +45 °C | -10 ÷ +45 °C | -10 ÷ +45 °C |
| | -20 ÷ +80 °C | -20 ÷ +80 °C | -20 ÷ +80 °C |
| | 10% ÷ 80% | 10% ÷ 80% | 10% ÷ 80% |
| | Rack 19" 1U | Rack 19" 1U | Rack 19" 1U |
| | (483 × 45 × 270 mm, | (483 × 45 × 270 mm, | (483 × 45 × 270 mm, |
| | indoor) | indoor) | indoor) |
| | Custom box | Custom box | Custom box |
| | (220 × 96 × 228 mm, | (220 × 96 × 228 mm, | (220 × 96 × 228 mm, |
| | outdoor) | outdoor) | outdoor) |
| | IP50 (indoor) | IP50 (indoor) | IP50 (indoor) |
| | IP67 (outdoor) | IP67 (outdoor) | IP67 (outdoor) |