

ANALOG DOWN CONVERTERS (RECEIVERS)

AML-RX


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

RF input frequency
Input level

IF output frequency
Output level
Output impedance
Output return loss

RF structure
Frequency stability L.O.

L.O. steps
System gain
Noise figure

GENERAL

Power supply
Power consumption
Operating temperature
Storage temperature
Storage relative humidity
Dimensions

Protection degree

AML-R7

6.8 ÷ 7.2 GHz
-70 ÷ -25 dBm

typ. 70 MHz
max. +10 dBm
50 Ω
> 18 dB

PLL synthesized
double conversion
± 5 ppm standard
± 2 ppm HS option
typ. 1 MHz
35 dB
2 dB typ.

110 ÷ 240 Vac (indoor)
12 ÷ 15 Vdc (outdoor)
typ. 10 W
-10 ÷ +45 °C
-20 ÷ +80 °C
10% ÷ 80%
Rack 19" 1U
(483 × 45 × 270 mm,
indoor)
Custom box
(220 × 96 × 228 mm,
outdoor)
IP50 (indoor)
IP67 (outdoor)

AML-R10

10.3 ÷ 10.7 GHz
-70 ÷ -25 dBm

typ. 70 MHz
max. +10 dBm
50 Ω
> 18 dB

PLL synthesized
double conversion
± 5 ppm standard
± 2 ppm HS option
typ. 1 MHz
35 dB
3 dB typ.

110 ÷ 240 Vac (indoor)
12 ÷ 15 Vdc (outdoor)
typ. 10 W
-10 ÷ +45 °C
-20 ÷ +80 °C
10% ÷ 80%
Rack 19" 1U
(483 × 45 × 270 mm,
indoor)
Custom box
(220 × 96 × 228 mm,
outdoor)
IP50 (indoor)
IP67 (outdoor)

AML-R14

14.0 ÷ 14.5 GHz
-70 ÷ -25 dBm

typ. 70 MHz
max. +10 dBm
50 Ω
> 18 dB

PLL synthesized
double conversion
± 2.5 ppm standard
± 1 ppm HS option
typ. 1 MHz
35 dB
2 dB typ.

110 ÷ 240 Vac (indoor)
12 ÷ 15 Vdc (outdoor)
typ. 10 W
-10 ÷ +45 °C
-20 ÷ +80 °C
10% ÷ 80%
Rack 19" 1U
(483 × 45 × 270 mm,
indoor)
Custom box
(220 × 96 × 228 mm,
outdoor)
IP50 (indoor)
IP67 (outdoor)