Data sheet





Single-band amplifier

for mobile signals

art. 39-510 **T-AMP 2100 20dBm**

















a good quality signal is received outside. Ideal for amplifying the signal in areas up to 500÷2000 m².

Amplifier ideal for the amplification of the mobile phone signal in band 1 (2100 MHz) inside public or private buildings (e.g. houses, restaurants, offices, shops, etc.), where signals are weak or absent, provided that

If you want to spread the signal inside a very large building, you can connect to the amplifier a splitter with a number of outputs equal to the number of indoor antennas that you need to instal to reach the desired signal coverage.

Code		39-510
Item		T-AMP 2100 20dBm
Band name		1
Band	MHz	2100 MHz
Uplink frequencies	MHz	1920 ÷ 1980
Daymlink fraguencies	NALIZ	2110 : 2170

Downlink frequencies MHz 60 Bandwidth Max gain dB Uplink: ≥65 / Downlink: ≥70 Uplink: ≥15 / Downlink: ≥20 Max output power dBm Coverage area 500 ÷ 2000 m^2 dB ≥25 AGC control range Manual gain adjustment dB 31 (1 dB per time) Max input power dBm -25 Impedance Ω 50 Noise figure dB Group delay time μs ≤1 **VSWR** dB ≤2 Spurious emissions 9 kHz - 1 ≤-36 dBm Spurious emissions 1 GHz - 12.75 GHz ≤-30 dBm Consumption W 12 Connectors female N type °C -10 ÷ +50 Operating temperature Environmental conditions IP40 included Wall fixing accessory Dimensions (LxWxH) 128x170x65 mm 22 Weight Kg Packaging dimensions (LxWxH) 440x310x260 mm Packaging weight Kg **POWER SUPPLY** Vdc Power supply 6 Max power consumption Α AC main tension 100-240 V~ 50/60Hz Isolation class

* The coverage area is an indicative data that changes according to various factors and is different in each system.

Kg

In order to obtain the maximum output power of the amplifier (+20 dBm = 127 dBµV), the input signal to the amplifier must be at least -50 dBm $(57 \text{ dB}\mu\text{V}).$

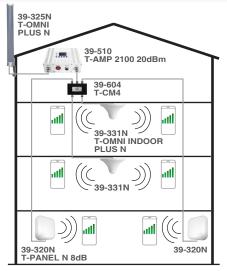
Characteristics

- Max gain 70 dB with Automatic Gain Adjustment (AGC)
- Detection functions for self-oscillation and overpower
- LED indicators for status, power, alarms
- Compliant to:

2014/53/UE/RED; 2011/65/UE (RoHS) EN 301 489-50 V2.1.1; EN 301 489-50 V2.3.1; EN 301 489-1 V2.1.1; EN 301 489-1 V2.2.3; EN 301 908-11 V11.1.2; EN 301 908-1 V.13.1.1; EN 301 908-15 V15.1.1; EN 303 609 V12.5.1; EN 60950-1:2006+A11:2009+A1:2010+A12: 2011+A2:2013; EN 62368-1:2014+A11:2017; EN 50385:2017; EN 62311:2020

Example of application





Rev. 1 07.2025



Dimensions (LxWxH)

90x40x50