



Single-band amplifier for mobile signals

art. 39-514B
T-AMP 800/1800 20dBm

Amplifier ideal for the amplification of the mobile phone signal in band 20 (800 MHz) and in band 3 (1800 MHz) inside public or private buildings (e.g. houses, restaurants, offices, shops, etc.), where signals are weak or absent, provided that a good quality signal is received outside.

Ideal for amplifying the signal in areas up to 500÷2000 m².

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.



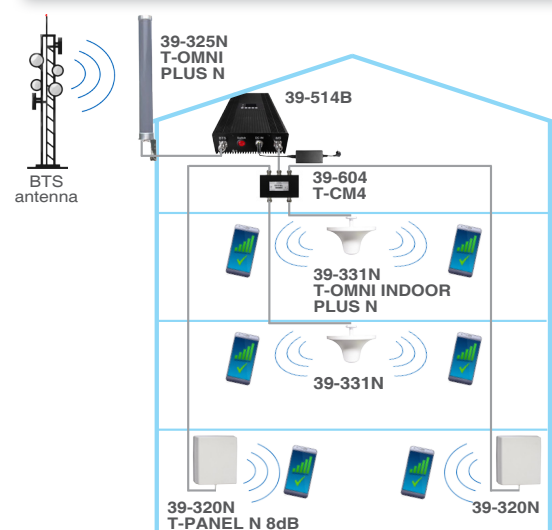
| Code | 39-514B | |
|--------------------------------------|----------------------|-----------------------------|
| Item | T-AMP 800/1800 20dBm | |
| Bands name | Band 20 | Band 3 |
| Bands | MHz | 800 MHz 1800 MHz |
| Uplink frequencies | MHz | 832 ÷ 862 1715 ÷ 1785 |
| Downlink frequencies | MHz | 791 ÷ 821 1810 ÷ 1880 |
| Bandwidth | MHz | 30 75 |
| Max gain | dB | Uplink: ≥65 / Downlink: ≥70 |
| Max output power | dBm | Uplink: ≥15 / Downlink: ≥20 |
| Coverage area | m ² | 500 ÷ 2000 |
| AGC control range | dB | ≥25 |
| Manual gain adjustment | dB | 31 (1 dB per time) |
| Max input power | dBm | -25 |
| Impedance | Ω | 50 |
| Noise figure | dB | ≤6 |
| Group delay time | μs | ≤1 |
| VSWR | dB | ≤2 |
| Spurious emissions 9 kHz - 1 GHz | ≤-36 dBm | |
| Spurious emissions 1 GHz - 12.75 GHz | ≤-30 dBm | |
| Consumption | W | 12 |
| Connectors | female N type | |
| Operating temperature | °C | -10 ÷ +50 |
| Environmental conditions | IP40 | |
| Wall fixing accessory | included | |
| Dimensions (LxWxH) | mm | 250x170x65 |
| Weight | Kg | 4,0 |
| Packaging dimensions (LxWxH) | mm | 300x285x100 |
| Packaging weight | Kg | 4,0 |
| POWER SUPPLY | | |
| Remote power supply | Vdc | 9 |
| Max power consumption | A | 5 |
| AC main tension | 100-230 V~ 50/60Hz | |
| Isolation class | II | |
| Dimensions (LxWxH) | mm | 130x50x35 |
| Weight | Kg | 0,20 |

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 dBμV).

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 V2.2.1; EN 301 489-1 V2.2.1;
EN 301 908-11 V11.1.2; EN 301 908-11 V11.1.1;
EN 301 908-15 V11.1.2; EN 303 609 V12.5.1;
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013; EN 50385:2017

Example of application



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

Rev. 0 10.2022

