



## Dual band amplifier for mobile signals

**art. 39-514I**  
**T-AMP 2100/2600 20dBm**

Amplifier ideal for the amplification of the mobile phone signal in band 1 (2100 MHz) and in band 7 (2600 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 m<sup>2</sup>.

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                                 | 39-514I               |                             |
|--------------------------------------|-----------------------|-----------------------------|
| Item                                 | T-AMP 2100/2600 20dBm |                             |
| Bands name                           | Band 1                | Band 7                      |
| Bands                                | MHz                   | 2100 MHz 2600 MHz           |
| Uplink frequencies                   | MHz                   | 1920 ÷ 1980 2510 ÷ 2570     |
| Downlink frequencies                 | MHz                   | 2110 ÷ 2170 2630 ÷ 2690     |
| Bandwidth                            | MHz                   | 60 60                       |
| Max gain                             | dB                    | Uplink: ≥65 / Downlink: ≥70 |
| Max output power                     | dBm                   | Uplink: ≥15 / Downlink: ≥20 |
| Coverage area                        | m <sup>2</sup>        | 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                         |
| <b>POWER SUPPLY</b>                  |                       |                             |
| Power supply                         | Vdc                   | 6                           |
| Max power consumption                | A                     | 3                           |
| AC main tension                      | 100-240 V~ 50/60Hz    |                             |
| Isolation class                      | II                    |                             |
| Dimensions (LxWxH)                   | mm                    | 90x40x50                    |
| Weight                               | Kg                    | 0,135                       |

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

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

