Data sheet

OFFEL

Dual band amplifier

for mobile signals

art. 39-514C
T-AMP 800/2100 20dBm

MOBILE
230 V~
INDOOR
HIGH SHIELDING
REG.
CONN. N
CE

Amplifier ideal for the amplification of the mobile phone signal in band 20 (800 MHz) and 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 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		39-514C	
Item		**T-AMP 800/2100 20dBm**	
Bands name		Band 20	Band 1
Bands	MHz	800 MHz	2100 MHz
Uplink frequencies	MHz	832 ÷ 862	1920 ÷ 1980
Downlink frequencies	MHz	791 ÷ 821	2110 ÷ 2170
Bandwidth	MHz	30	60
Max gain	dB	Uplink: ≥65 / Downlink: ≥70	
Max output power	dBm	Uplink: ≥15 / Downlink: ≥20	
Coverage area	m²	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			
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	

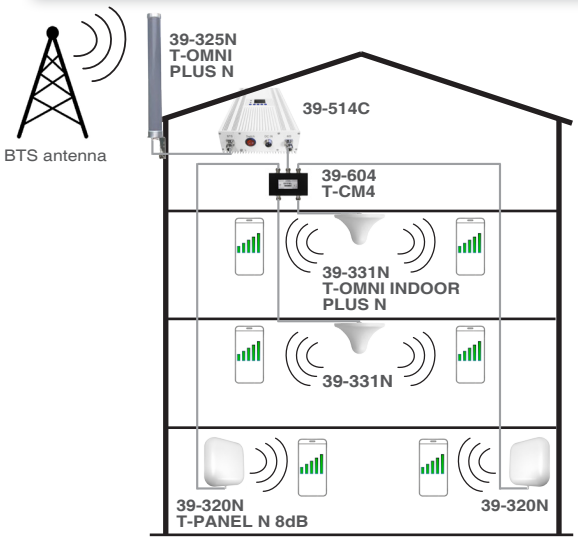
* The coverage area is an indicative data that changes according to various factors and is different in each system.

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



Offel s.r.l. Via Lato di Mezzo, 32 48022 Lugo RA - Italy Tel. +39 0545/22542 assistenza@offel.it **www.offel.it**