Data sheet

Dual band amplifier

for mobile signals

art. 39-516A
T-AMP 800/900 27dBm

Amplifier ideal for the amplification of the mobile phone signal in band 20 (800 MHz) and in band 8 (900 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 3000÷4000 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.

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

Code		39-516A	
Item		**T-AMP 800/900 27dBm**	
Bands name		Band 20	Band 8
Bands	MHz	800 MHz	900 MHz
Uplink frequencies	MHz	832 ÷ 862	880 ÷ 915
Downlink frequencies	MHz	791 ÷ 821	925 ÷ 960
Bandwidth	MHz	30	35
Max gain	dB	Uplink: ≥75 / Downlink: ≥80	
Max output power	dBm	Uplink: ≥20 / Downlink: ≥27	
Coverage area	m²	3000 ÷ 4000	
AGC control range	dB	≥25	
Manual gain adjustment	dB	31 (1 dB per time)	
Max input power	dBm	-29	
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	335x170x65	
Weight	Kg	5,0	
Packaging dimensions (LxWxH)	mm	390x280x120	
Packaging weight	Kg	5,0	
POWER SUPPLY			
Power supply	Vdc	6,5	
Max power consumption	A	9,2	
AC main tension		200-240 V~ 50/60Hz	
Isolation class		II	
Dimensions (LxWxH)	mm	120x50x30	
Weight	Kg	0,225	

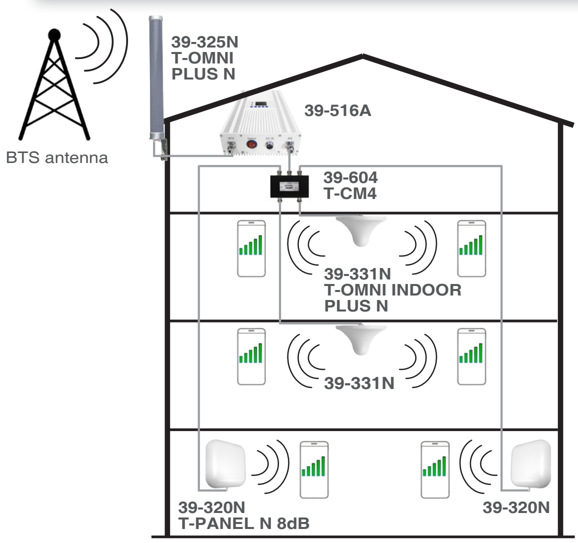
* The coverage area is an indicative data that changes according to various factors and is different in each system.

In order to obtain the maximum output power of the amplifier (+27 dBm = 134 dBµV), the input signal to the amplifier must be at least -53 dBm (54 dBµV).

Characteristics

- Max gain 80 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



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