Data sheet





Single-band amplifier

for mobile signals

art. 39-516A



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













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	m ²	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			
Remote power supply	Vdc	9	
Max power consumption	Α	5	
AC main tension		100-230 V~ 50/60Hz	
Isolation class		I	I
Dimensions (LxWxH)	mm	130x50x35	
Weight	Kg	0,20	

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

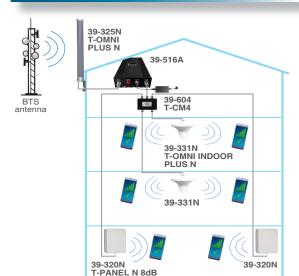
In order to obtain the maximum output power of the amplifier (+27 dBm = 134 dB μ V), the input signal to the amplifier must be at least -53 dBm $(54 \text{ dB}\mu\text{V}).$

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



Rev. 0 10.2022



Offel s.r.l.