



Single band kit for mobile signals

**art. 39-105K
T-KIT 2100**

Kit equipped with an amplifier ideal for the amplification of the mobile phone signal 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 250 m².

The kit includes:

- no.1 outdoor antenna
- no.1 amplifier
- no.1 10 mt. coaxial cable with an SMA connector and a N connector
- no.2 adapters N male/SMA female
- no.1 indoor whip antenna
- no.1 switching power supply
- no.1 fixing accessories kit



Code	39-105K	
Item	T-KIT 2100	
OUTDOOR ANTENNA		
Type	directional, logarithmic shape	
Frequencies	MHz	880+960 + 1710+2700
Gain	dB	12
Connector	female N type	
Fixing clamp for masts Ø	mm	25÷42
INDOOR ANTENNA		
Type	omnidirectional, whip	
Frequencies	MHz	900+2500
Connector	male SMA type	
AMPLIFIER		
Band name	1	
Band	MHz	2100 MHz
Uplink frequencies	MHz	1920 ÷ 1980
Downlink frequencies	MHz	2110 ÷ 2170
Bandwidth	MHz	60
Max gain	dB	Uplink: ≥65 / Downlink: ≥70
Max output power	dBm	Uplink: ≥15 / Downlink: ≥20
Coverage area	m²	250
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	128x170x65
Weight	Kg	2,2
Packaging dimensions (LxWxH)	mm	440x310x260
Packaging weight	Kg	2,9
POWER SUPPLY		
Remote power supply	Vcc	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
COAXIAL CABLE		
Length	mt.	10
Diameter	Ø	6,1
Connectors	male SMA type and male N type	
Impedance	Ω	50

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).

Amplifier 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 V2.1.1; EN 301 489-50 V2.3.1;
EN 301 489-1 V2.1.1; EN 301 489-1 V2.2.3;
EN 301 908-11 V11.1.2; EN 301 908-1 V.13.1.1;
EN 301 908-15 V15.1.1; EN 303 609 V12.5.1;
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013; EN 62368-1:2014+A11:2017;
EN 50385:2017; EN 62311:2020

Example of application

