Data sheet

OFFEL

Single band kit

for mobile signals

art. 39-003K
T-KIT 800

MOBILE

230 V~

INDOOR

HIGH SHIELDING

REG.

CONN. N

CE

Kit equipped with an amplifier ideal for the amplification of the mobile phone signal in band 20 (800 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 m^2.

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

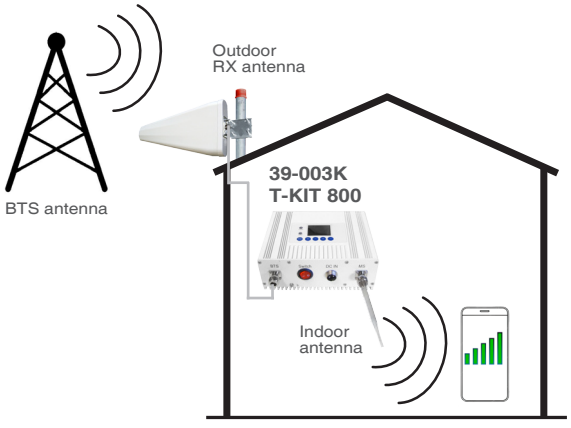
Code		39-003K
Item		**T-KIT 800**
OUTDOOR ANTENNA		
Type		directional, logarithmic shape
Frequencies	MHz	880÷960 + 1710÷2700
Gain	dB	12
Connector		female N type
Fixing clamp for masts Ø	mm	25÷42
INDOOR ANTENNA		
Type		omnidirectional, whip
Frequencies	MHz	900÷2500
Connector		male SMA type
AMPLIFIER		
Band name		20
Band	MHz	800 MHz
Uplink frequencies	MHz	832 ÷ 862
Downlink frequencies	MHz	791 ÷ 821
Bandwidth	MHz	30
Max gain	dB	Uplink: 65 / Downlink: 70
Max output power	dBm	Uplink: ≥-5 / Downlink: ≤20
Coverage area	m^2	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		
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
COAXIAL CABLE		
Length	mt.	10
Diameter	Ø	6,1
Connectors		male SMA type and male N type
Impendance	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



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