Data sheet

OFFEL

# Dual band kit

## for mobile signals

## art. 39-203K
## T-KIT 800/2600

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) and in band 7 (2600 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

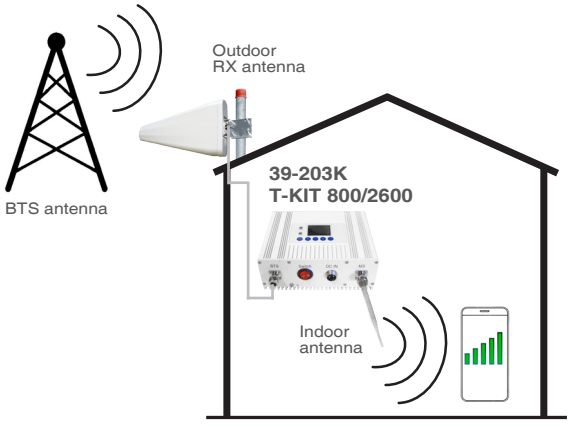
| Code | | 39-203K | |
|---|---|---|---|
| **Item** | | **T-KIT 800/2600** | |
| OUTDOOR ANTENNA | | | |
| Type | | directional, logarithmic shape | |
| Frequencies | MHz | 880÷960 + 1710÷2700 | |
| Gain | dB | 12 | |
| Connector | | female N type | |
| Fixing clamp for masts Ø | mm | 25÷42 | |
| INDOOR ANTENNA | | | |
| Type | | omnidirectional, whip | |
| Frequencies | MHz | 900÷2500 | |
| Connector | | male SMA type | |
| AMPLIFIER | | | |
| Bands name | | Band 20 | Band 7 |
| Bands | MHz | 800 MHz | 2600 MHz |
| Uplink frequencies | MHz | 832 ÷ 862 | 2510 ÷ 2570 |
| Downlink frequencies | MHz | 791 ÷ 821 | 2630 ÷ 2690 |
| Bandwidth | MHz | 30 | 60 |
| 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



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