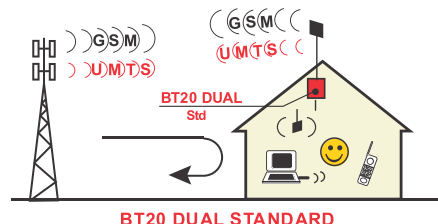


REPEATER-EXTENDER DUAL BAND

GSM 900MHz+3G-UMTS 2.1GHz



BT 20-DUAL/STANDARD

MULTI-OPERATORE / MULTI PROVIDERS

The **BT20-DUAL**, both versions, is a professional dual band GSM/UMTS repeater for mobile telephone applications with **high gain 60-65dB** and automatic level control (ALC) and interference alarm, very reliable and efficient, able to cover up to **1.000 square meters** on the standard version; with **kit splitter option** and adequate project can reach 2.000-3.000 square meters of indoor coverage.

It operates on two bands at the same time: **GSM 900MHz wide band** for voice and GPRS/EGDE data (low speed) and **3G-UMTS 2100MHz** for fast internet traffic on wide band.

Useful to extend up to **20-30 simultaneous communications** from outside building where signal is well operative to inside where poor or absent.

The **BT20-DUAL-STANDARD** or **one provider direction version** uses an external panel antenna **MD14** with high gain (14dBi) that must be directed to one or more provider cells into radiation angle 60-70°.

The **BT20-DUAL/OM** or **multiprovider version** includes an external omnidirectional antennas MD6 operative on 360° with limited gain (6dBi) but it not need any direction set, useful only in application with **high level of roof signal** and only one indoor antenna.

If it is required **multiproviders** coverage but external signal is **low** or bad service, mainly on 3G-UMTS band, and kit splitter extension for more indoor antennas, it must be used an **external collinear antenna COL2** (2 panels) or **COL4** (4 panels) with high gain and wide radiation angle.

Applications:

offices, factories and warehouses, shopping centers, hotels, restaurants, underground car parks, houses.

Delivery kit includes all the main hardware for easy installation:

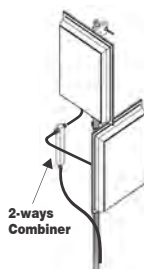
- 1 roof antenna with 10mt cable and connectors
- 1 indoor antenna with 10mt cable and connectors
- 1 amplifier 60-65dB gain
- 1 power supply 230VAC 50Hz

Options:

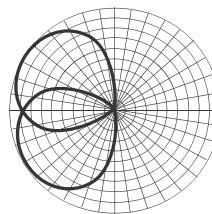
- Kit splitter to improve indoor coverage, pag. 21
- Extension coax cables **PR10-20-33**, pag. 22
- Indoor ceiling omnidirectional antenna **C7**, pag. 24
- Collinear high gain roof antenna **COL2 -COL4**, pag. 25.

Antenne collineari esterne ad alto guadagno

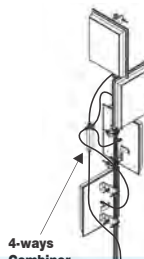
Collinear high gain roof antennas



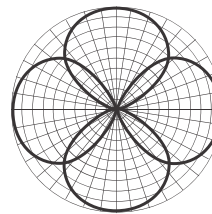
COL2



**ANGOLO DI
RADIAZIONE
RADIATION
PATTERN:
120°**



COL4



**ANGOLO DI
RADIAZIONE
RADIATION
PATTERN:
360°**