

## MICRO REPEATER +20dBm Full Band 700/800/900/1800/2100/2600MHz

Date d'application :  
31/01/2019

### ❖ General Description :

The repeater is an ideal solution to solve the problems of coverage inside all the operators

The repeater functions as a relay between the BTS and mobiles. It picks up an external signal from a donor antenna and amplifies it and transmits it back to the area to be covered by the antenna cover.

The micro repeater has many advantages:

- **Easy installation and maintenance**
- **High system gain**
- **Linear power amplification to effectively suppress inter-modulation and spurious emissions**
- **The ALC ensures a stable and continuous output level.**



### ✚ Technical Characteristics

| SYSTEM                       |          | 4G 700                               | 4G 800      | 2G/3G 900   | 2G/4G 1800    | 3G/4G 2100    | 4G 2600       |
|------------------------------|----------|--------------------------------------|-------------|-------------|---------------|---------------|---------------|
| Frequency                    | Uplink   | 703~733 MHz                          | 832~862 MHz | 880~915 MHz | 1710-1785 MHz | 1920-1980 MHz | 2500-2570 MHz |
|                              | Downlink | 758~788 MHz                          | 791~821 MHz | 925~960 MHz | 1805-1880 MHz | 2110-2170 MHz | 2620-2690 MHz |
| Bandwidth                    |          | 30 MHz                               | 30 MHz      | 35 MHz      | 75 MHz        | 60 MHz        | 70 MHz        |
| Maximum Gain                 |          | Uplink: 70±3dB ; Downlink: 70±3dB;   |             |             |               |               |               |
| Maximum Output Power         |          | Uplink: 20±2dBm ; Downlink: 20±2dBm; |             |             |               |               |               |
| AGC control range            |          | ≥20dB                                |             |             |               |               |               |
| Maximum Input power          |          | ≤0dBm                                |             |             |               |               |               |
| I/O Impedance                |          | 50 Ω                                 |             |             |               |               |               |
| Noise Figure                 |          | ≤ 6dB                                |             |             |               |               |               |
| Group delay time             |          | ≤ 1.5µs                              |             |             |               |               |               |
| VSWR                         |          | ≤ 2.0                                |             |             |               |               |               |
| Spurious Emission            |          | 9kHz~1GHz: ≤ -36dBm/30kHz            |             |             |               |               |               |
|                              |          | 1GHz~12.75GHz: ≤ -30dBm/30kHz        |             |             |               |               |               |
| Third-order Inter-Modulation |          | ≤ -36dBc/30kHz                       |             |             |               |               |               |

**Distributore per l'Italia: PROTEL S.A.S.**



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**DAT/MICRO REPEATER/010089B**

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Selon modèle DAT1448C

Vérfifié : A.Sabaca

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Approuvé : O.Deblock

|  <b>Three frequency band model</b><br><b>Mechanical &amp; Electrical characteristics</b> |   |
|---|---|
| <b>RF Connector</b>   | N-Type (Female)                                   |
| <b>Power Consumption</b>  | ≤ 25W   |
| <b>Power Supply</b>   | Input AC100~ 240V Output DC 5V/5A                 |
| <b>Dimensions</b>   | 318mm×265mm×68mm                                  |
| <b>Weight</b>   | ≤7.5 kg   |
| <b>Alarm Monitoring System</b>  | Alarm for uplink self-oscillation                 |
| <b>Indication LED</b>   | Power supply, Alarm, state                        |
| <b>Operating Temperature</b>  | -10 ~ +50 °C                                      |
| <b>Application</b>  | Indoor(IP30)                                      |
| <b>Relative Humidity Range</b>  | ≤95%  |
| <b>Control Connector (Optional)</b>   | USB for Local; UMTS modem for remote              |
| <b>NMS(Optional)</b>  | Power supply, Output power, Gain, UL/DL ATT, etc. |

**Application:**

offices, parking lots...

