

**GSM - UMTS DUAL BAND BANDSELECTIVE  
HIGH POWER PICO-REPEATER**

- **HIGH POWER**
- **HIGH SENSITIVITY**
- **HIGH DYNAMIC RANGE**
- **SMALL SIZE**

This dual band pico-repeater is intended for use in GSM & UMTS indoor systems. It is a very compact and lightweight unit and it is especially advantageous to use it inside the buildings, rooms, tunnels where the field strength is weak. It is a cost effective solution to cover areas, which cannot be covered economically with base stations. It is a very economical solution, can be installed easily. Status information such as overload, overtemperature, supply voltage failure, PLL unlock is indicated by red and green LED-s.

**Electrical characteristics:**

Frequency Band Uplink	890 – 915 MHz @ GSM	1920 – 1980 MHz @ UMTS
Frequency Band Downlink	935 – 960 MHz @ GSM	2110 – 2170 MHz @ UMTS
Frequency Bandwidth (Up/Downlink)	5 – 25 MHz (*)	5 – 45 MHz (*)
Mode of Operation	band selective duplex	
Linear Output Power	+ 18 dBm @ each band	
Maximum Output Power (**)	Downlink: 24 dBm Uplink: 22 dBm	Downlink: 24 dBm Uplink: 24 dBm
ICP3	+ 41 dBm typ. (min. + 38 dBm)	
Nominal Gain	70 dB @ each band	
Gain Ripple	± 1 dB typical (± 3 dB max.)	
Gain Setting	70 to 40 dB in 2 dB steps / optional adaptive gain	
Input Noise Figure	6 dB typ.	
Harmonics	According to the ETSI regulation	
Spurious Radiation	According to the ETSI regulation	
Local Leakage	According to the ETSI regulation	
RF Connectors	N – female	
Supply Voltage	with external 230V / DC power supply	
Power Consumption	~ 21 W	
Weight	2.5 kg	
Operating temperature range	0 to + 55 °C optional -10 .... + 55 °C	
Application	Indoor	

(\*) Centre frequency and bandwidth can be specified in the whole GSM/UMTS band.

(\*\*) Adjustable ALC level.

Specifications are subject to change without notice.





**BRDS22**

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**Outline dimensions (mm):**

