



**BONN HUNGARY
ELECTRONICS**

**GSM BANDSELECTIVE
OFFSET-REPEATER**

BRPO
Family
NDS # 906

an ISO 9001 Certified Company



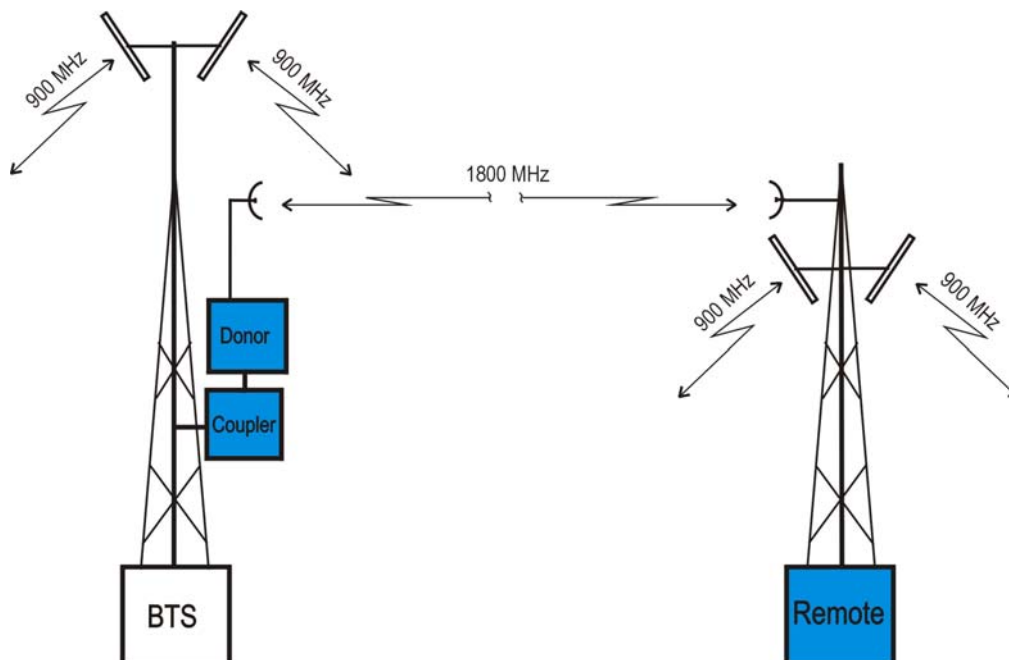
- **NO ANTENNA ISOLATION REQUIREMENT**
- **HIGH SENSITIVITY**
- **HIGH DYNAMIC RANGE**
- **COMPACT SIZE**

This system uses two repeaters as one pair in a special configuration. One of them is located near to the base station. A small part of the transmitted 900 MHz RF power is coupled out and this signal is converted to the 1800 MHz GSM band and transmitted to the far side counterpart. This unit located sometimes more than ten kilometers away. The received signal then converted back to the 900 MHz band and transmitted to the mobile users and vice versa. As can be seen, there is no need to have an extra microwave link, this function is provided by the repeater itself. At the uncovered new site, a smaller „Baby cell” is created with the full capability of the „Mother cell” supported by the already existing BTS. The system configuration can be seen on the drawing.

It is a compact and reliable unit and it is especially advantageous to use in villages, or open fields where the field strength is weak and the isolation between the repeater antennas is low. It is a cost effective solution to cover areas, which cannot be covered economically with base stations. Parameters and monitor voltages can be accessed by RS232 interface.

Many of these repeaters are already in successful operation in the Hungarian Westel GSM network.

For further details please contact the factory.



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