

PRODUCT DESCRIPTION

TMB 1+1 TurboEDGE System for 1800/1900 MHz

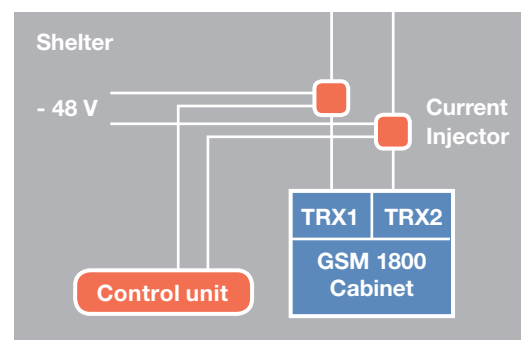
*Boosting GSM coverage by 50 – 150%
for low capacity, tower sites*

The TMB 1+1 TurboEDGE System from Radio Components provides a cost efficient coverage enhancement for GSM 1800 or 1900 MHz operators with rural, low capacity sites including road sites. The offered traffic capacity is given by the two carriers in each sector i.e. one carrier per feeder (“1+1”). It has a unique feature for extra boosting of EDGE signals.

The TMB System is fully compatible and transparent with any GSM base station and is in service with most of the major BTS types offered on the market. It is ideally suited for sites with long feeders for which the coverage is typically increased by 50-150%. Such sites are tower sites or roof top sites with the BTS placed inside the building far from the antenna.

For each antenna sector the following main components are supplied:

- One compact and lightweight TMB for tower or roof top mounting close to the antenna. The TMB amplifies both downlink (DL) and uplink (UL) signals over the full system band.
- Two Current Injectors (CI), which feed DC power to the TMB, provides data communication between CU and TMB and includes built-in lightning protection
- One Control Unit (CU) for installation in (or close to) the RBS cabinet. It provides control, monitoring and alarm handling remotely (Ethernet or GPRS modem) and locally on site. The CU connects up to three TMB 1+1.



System configuration for TMB 1+1 TurboEDGE



TMB 1+1 TurboEDGE

The TMB 1+1 TurboEDGE is manufactured for both 1800 MHz and 1900 MHz to support operators all around the world. The key competitive advantage with Radio Components' TMBs, also highlighted in the specification below, is:

- Exceptional reliability (arctic and tropical climates)
- Very easy to install, operate and maintain (superior communication features)
- Best radio coverage performance on the market (best sensitivity and optimized link budget)
- No separate power and signaling cables (uses the feeders)
- Full ETSI compliance and certified in many countries

The TMB 1+1 TurboEDGE is connected to two feeders in one sector and can amplify one TRX in each feeder. The block diagram of the TMB 1+1 is shown in the figure below.

