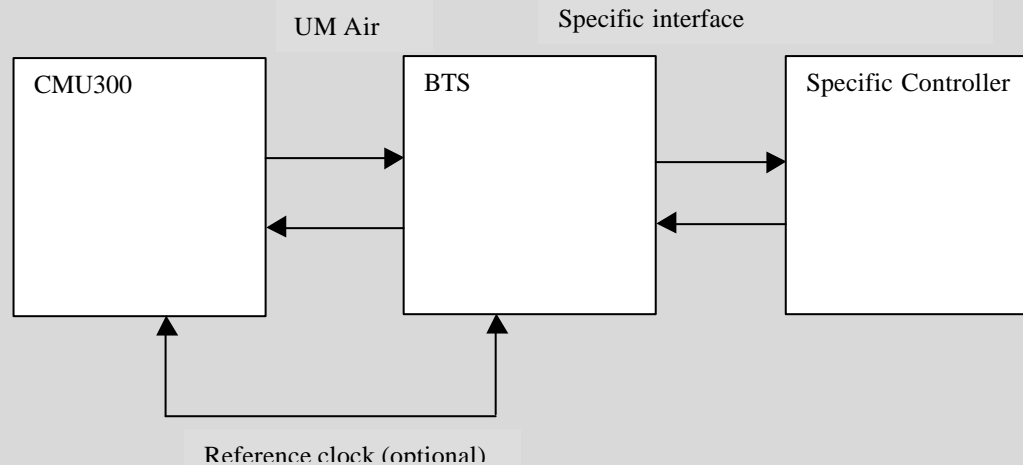


## RF test of GSM / EDGE BST's, controlled via proprietary interface

(application: operations, installation, commissioning)

### Test Set-up



### Characteristics of test environment

- Set-up of BTS RF channels without call / signalling procedures (MOC / MTC; Attach / Detach)
- Configuration of path for BER tests to be arranged by the controller
- “Single carrier” RF conditions

### Suggested configuration

CMU300; CMU-B12 (optional); CMU-B21; CMU-K31...34; CMU-K41 (optional)

### Supported measurements

- synchronisation to TDMA - timing of BTS possible via BCCH or Multi-frame-trigger (CMU = Signalling Mode)
- TX-Tests (time slot selective measurements possible)
  - Mean transmitted RF carrier power
  - Transmitted RF carrier power versus time
  - Modulation accuracy
  - Spectrum due to Modulation
  - Switching Transients Spectrum
- RX-Tests: BER measurements on TCH's
  - Continuous BER measurements based on real time channel coding processes
  - Support of different BER test-path's

### Remarks

- BER tests in most cases based on loop-back inside BTS (RX channel decoder to TX channel coder); to be activated by controller
- For GPRS / EGPRS measurements special test-mode from BTS required; i.e. one “static” TS with packet switched channel coding must be active on up- and down-link