



BBU Emulation for BTS Master

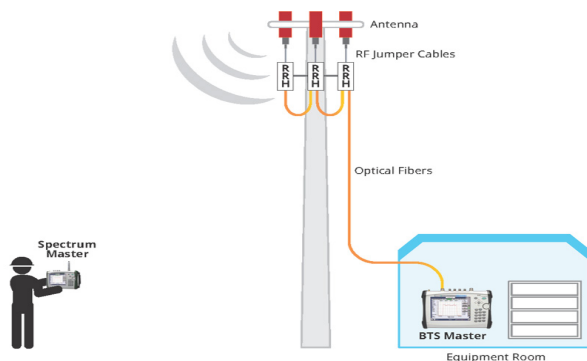
MT8220T, MT8221B & MT8222B



Streamline Remote Radio Head (RRH) Installations

With the large increase in mobile data traffic, network operators are moving the BBU (BaseBand Units) from macro cell sites to a common central location allowing greater flexibility and cost savings. The connection from the BBU to the RRH is most commonly via fiber running a CPRI link. Moving the RRH to the top of a tower reduces signal loss in RF cable runs and allows BBUs to be housed in a central location up to 25km away.

Field engineers installing the RRH at the tower top need a fast and reliable way of testing that the radio is functioning correctly and that the CPRI fiber connection and associated SFPs have been correctly installed. The BBU emulation option for the Anritsu MT8220T replicates the functionality of a standard BBU, meaning that field engineers can fully test and exercise the RRH from ground level. This allows the installation of the RRH to be validated and signed off, before the BBU is installed.



Using a second Anritsu spectrum Analyzer, the LTE wave file transmitted on the RRH downlink can be viewed.

Applications

Supports single RRH or multiple RRH in daisy chain format

Read individual RRH status information

- Model & serial number
- Installed firmware version
- Frequency range and output power
- Location of installed SFPs

Read RRH SFP data

Display of Layer 1 & 2 alarms to validate CPRI link status

Stream LTE wavefiles from the tester for transmission from the RRH

- Set RRH power and frequency
- Read VSWR and Return Loss at antenna port
- Monitor RRH transmission with portable spectrum analyzer

View spectrum of RRH uplink from ground level

- Set RRH downlink to OCNS max power and transmit LTE waveform
- Check for uplink interferers
- Simultaneously view uplink spectrum to check for PIM

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Option 760 for ALu/Nokia LTE RRH

BTS Master Combines Best in class CPRI LTE Spectrum Analysis with BBU Emulation

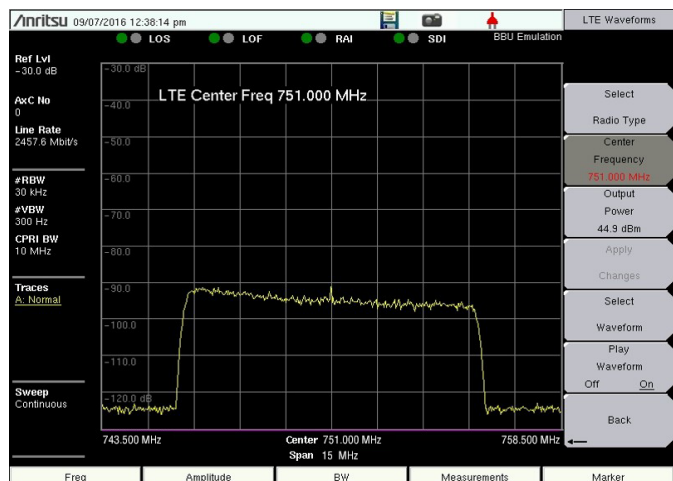
BTS Master with option 760 provides the most cost effective solution to meet the new demands of field technicians installing and maintaining remote radio heads with CPRI links. Remote radio heads and associated CPRI fiber feeds can be installed and validated before the BBU is commissioned. This provides certainty that the RRH is fully functional eliminating the need for repeat site visits.



After initializing the remote radio head, the BTS Master displays CPRI Layer 2 status alarms and the full configuration of the RRH.



The return loss and VSWR at the remote radio head transmit port can be read over the CPRI link and displayed with pass/fail status on the BTS Master display.



In BBU Emulation mode BTS Master can stream an LTE wavefile to the RRH that is transmitted at maximum power in the downlink. At the same time it can display the LTE uplink spectrum, monitoring for interfering signals or the presence of PIM.

Option Requirements

The new BBU Emulation option for BTS Master gives Anritsu a complete solution for building out, testing and troubleshooting new and installed ALu-Nokia RRH cell sites. The BBU Emulation Option 760 requires the existing CPRI LTE RF Measurements Option 751. If option 751 is already installed with the required timing hardware option 31, option 760 can be quickly and easily upgraded by adding a license key.

For more details visit: www.anritsu.com