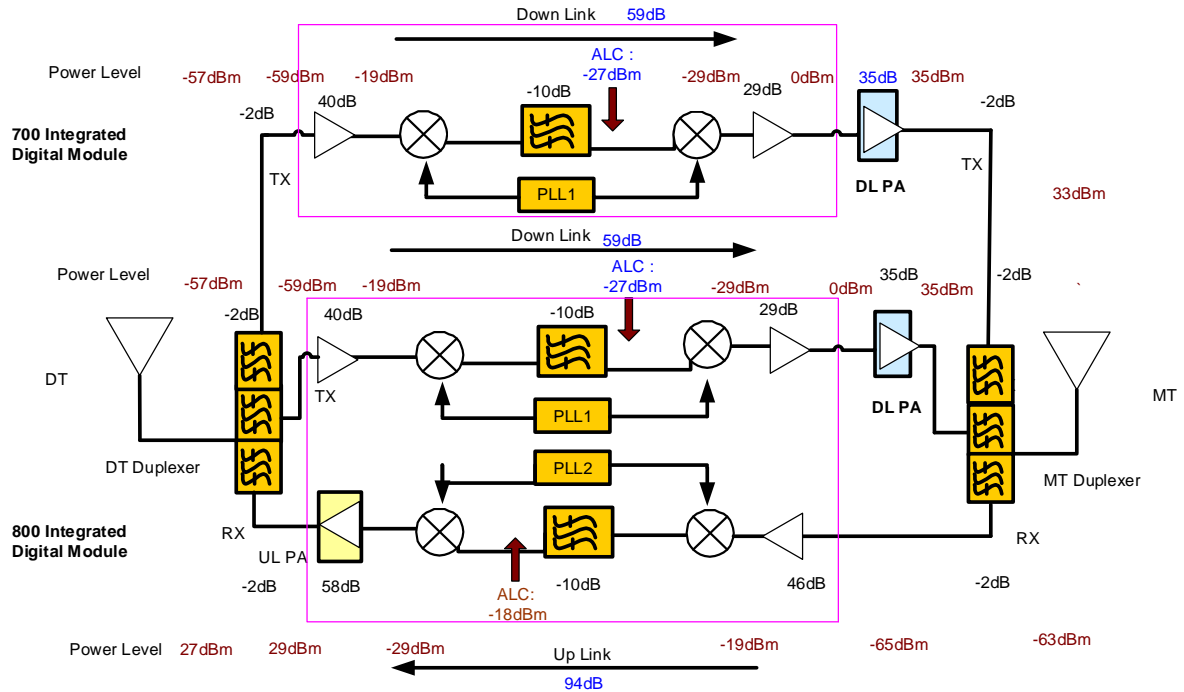


General Information

This document is suitable for RX-7W22 public safety BDA system.

Block Diagram



System gain: Downlink: 90dB; Uplink: 90dB.

System Description:

In the downlink, the BTS signals are received by donor antenna of the repeater. After the duplexer, the signals are sent to the LNA module for pre-amplification and digital RF integrated module for digital filtering and frequency conversion. Then the DL signals will be sent to downlink PA to amplify power and filter via duplexer. After amplification, the signals are transmitted via the MT port to the service antenna.

In the uplink, the mobile signals are received by the service antenna. After the MT port integrated duplexer, the signals are sent to the LNA, integrated module for digital filtering, then to PA for power amplification and to duplexer. After that, the uplink signals are sent to the donor antenna for transmission back to the BTS.

Detailed of EUT:

		700MHz	800MHz
Frequency Range, Uplink	MHz	788-805	806-817
Frequency Range, Downlink	MHz	758-775	851-862
Total Output Power, Uplink	dBm	27	
Total Output Power, Downlink	dBm	33	33
PA Power Supply	VDC	28 ± 0.5	28 ± 0.5
PA Current @ Max. Output Power	A	0.3	0.3