

BER Test

Date Completed: _____

Performed by: _____

Tested Specifications:

Test #	Engineering Specification	Description	Pass Requirement
T9	ES10	Bit Error Rate	<.12

Revision History:

Revision	Description	Date
1	Document Created	12/9/2010

Equipment Needed:

Name of Equipment	Accuracy
6RF Boards	-
PC with SmartRF Studio installed	-
CC Debugger	-
Laser distance measurer	
Distance marker	1cm

Resources Needed:

Software	Place
SmartRF Studio	Measurement should be performed in Line of Sight conditions (Golden Field House)

Test:

Step Number	Check Off	Procedure
1		Put the distance marker every 10m (or less) until arrive at maximal range (100m)
2		Fix transmitter at the start line (x=0)
3		Transmit data when receiver is at first marker (x=10m), note the packet error rate calculated by SmartRF Studio
4		Repeat the above procedure every 10m
5		Calculated the related BERs

Measured Results Table:

Variable Name	Recorded Value	Passable Range	Pass/Fail
BER (%)		<.12	

Comments and Calculations:

Sign off on section completion: _____

Date of Sign Off: _____