

BC95 Power Consumption Measuring

Coverage Level	RSRP Value	Power → Sending 200B → PSM				TAU Process		Remark							
		Power on → PSM		PSM → Aattach → sending 200B → Idle(eDRX) → PSM		PSM → TAU → Idle(eDRX) → PSM		typical current consumption in different state						EDRX cycle time	
		Time (s)	Energy (uAh)	Time (s)	Energy (uAh)	Time (s)	Energy (uAh)	Tx (mA)	Tx-MAX (mA)	Rx (mA)	Idle (mA)	PSM (uA)	Tx 200B Only (uAh)	cycle time	active time
0	-93.9	46	398	144	310	121.1	91.8	186.5	200	54.8	5.8	3.3	3.075	40.96s	120s
1	-129	63	770	151	619.2	132.8	484.8	194.1	200	55.5	5.8	3.3	19.913 retransmit		
2	-137	92	1900	162	1252.6	137.8	860.1	195.3	200	57.2	5.8	3.3	64.453 retransmit		

Coverage Level	RSRP Value	Power → Sending 510B → PSM				TAU Process		Remark							
		Power on → PSM		PSM → Aattach → sending 510B → Idle(eDRX) → PSM		PSM → TAU → Idle(eDRX) → PSM		typical current consumption in different state						EDRX cycle time	
		Time (s)	Energy (uAh)	Time (s)	Energy (uAh)	Time (s)	Energy (uAh)	Tx (mA)	Tx-MAX (mA)	Rx (mA)	Idle (mA)	PSM (uA)	Tx 510B Only (uAh)	cycle time	active time
0	-93.9	46	398	144	342	121.1	91.8	186.5	200	54.8	5.8	3.3	6.099	40.96s	120s
1	-129	63	770	152	628	132.8	484.8	194.1	200	55.5	5.8	3.3	82.147 retransmit		
2	-137	92	1900	191	2300	137.8	860.1	195.3	200	57.2	5.8	3.3	1153.63 retransmit		

Power consumption (CSP. uAh) Calculation sample

Coverage Level	TX 200B	Times /day	TX/ day	TAU /day	PSM CSP./day	CSP. /day	CSP./10YEAR (mAh)
0	310	1	310	91.8	79.2	481	1755.65
1	619.2	1	619.2	484.8	79.2	1183	4318.68
2	1252.6	1	1252.6	860.1	79.2	2192	8000.435

Coverage Level	TX 510B	Times /day	TX /day	TAU /day	PSM CSP./day	CSP. /day	CSP./10YEAR (mAh)
0	342	1	342	91.8	79.2	513	1872.45
1	628	1	628	484.8	79.2	1192	4350.8
2	2300	1	2300	860.1	79.2	3239	11823.445

Current Diagram of Whole Attach Process

