

# KR CERTIFICATION TEST RESULT

## 2 Over the Air Activation



### 2.1 Over the Air Activation

#### [ TEST PURPOSE ]

To verify the End Device's over the air activation with various downlink parameters and downlink timings

: 2.1 Over the Air Activation

#### [ LINK MESSAGE ]

L	CH	DR	SF	BW	Pow	Time	DEL	FCNT	Adr	Ack	FP	AAR	B	Port	M	CMD	CNTS
U	2	5	7	125	10.6	REF	-	----	0	0	-	0	-	---	-	Join-request	Nonce=6771
00 00 00 00 00 00 00 00 00 18 75 34 6D 32 34 30 35 71 67 1C 9B 78 22																	
->Restart Certification After Activation																	
D	2	5	7	125	-30.0	----	5	----	0	0	0	-	0	---	-	Join-accept	RX1DR0ffset=0,RXDelay=1,RX2DR=0
20 34 C5 E4 01 00 00 01 00 00 00 00 01 8A C6 2F D1																	
U	2	0	12	125	10.8	7.08s	-	0000	0	0	-	0	0	002	U	DataUp	ByteLen=16
40 01 00 00 00 00 00 00 02 00 27 87 0A 4D 00 6F 00 00 00 00 00 00 FF FF 2D 59 C5 F0																	
D	2	0	12	125	-30.0	----	1	0000	1	0	0	-	-	224	U	ActivateTM	
60 01 00 00 00 80 00 00 E0 01 01 01 01 03 5B B9 C2																	
U	0	0	12	125	10.8	4.87s	-	0001	1	0	-	0	0	224	U	DownlinkCounter	Cnt=0
40 01 00 00 00 80 01 00 E0 00 00 53 12 60 8E																	
[Modify RX1 and RX2 downlink parameters (OTAA)]																	
D	0	0	12	125	-30.0	----	1	0001	1	0	0	-	-	224	U	TriggerJoinReq	
60 01 00 00 00 80 01 00 E0 06 B2 9B 2E D1																	
U	1	5	7	125	10.7	REF	-	----	0	0	-	0	-	---	-	Join-request	Nonce=3F5A
00 00 00 00 00 00 00 00 00 18 75 34 6D 32 34 30 35 5A 3F 9E 52 46 54																	
D	1	3	7	125	-30.0	----	5	----	0	0	0	-	0	---	-	Join-accept	RX1DR0ffset=2,RXDelay=1,RX2DR=3
20 65 77 8F 01 00 00 01 00 00 00 23 01 BD 6B 06 DB																	
U	0	0	12	125	10.8	7.10s	-	0000	0	0	-	0	0	002	U	DataUp	ByteLen=16
40 01 00 00 00 00 00 00 02 00 27 85 0A 4D 00 6E 00 00 00 00 00 00 FF FF A7 35 28 0F																	
D	0	0	12	125	-30.0	----	1	0000	1	0	0	-	-	224	U	ActivateTM	
60 01 00 00 00 80 00 00 E0 01 01 01 01 1F AF DA 01																	
U	0	0	12	125	10.8	5.48s	-	0001	1	0	-	0	0	224	U	DownlinkCounter	Cnt=0
40 01 00 00 00 80 01 00 E0 00 00 C2 CD 78 E2																	
D	0	0	12	125	-30.0	----	1	0001	1	0	0	-	-	224	U	EchoRequest	EchoLen=3
60 01 00 00 00 80 01 00 E0 04 01 02 03 74 CC C9 D1																	
U	0	0	12	125	10.8	5.28s	-	0002	1	0	-	0	0	224	U	EchoResponse	Echo PASS
40 01 00 00 00 80 02 00 E0 04 02 03 04 42 6E CC 54																	
D	R2	1	9	125	-30.0	----	1	0002	1	0	0	-	-	224	U	EchoRequest	EchoLen=3
60 01 00 00 00 80 02 00 E0 04 01 02 03 03 44 C3 32																	
U	2	0	12	125	10.8	5.11s	-	0003	1	0	-	0	0	224	U	EchoResponse	Echo PASS
40 01 00 00 00 80 03 00 E0 04 02 03 04 0D 51 27 F0																	
U	2	0	12	125	10.8	4.94s	-	0004	1	0	-	0	0	224	U	DownlinkCounter	Cnt=2
40 01 00 00 00 80 04 00 E0 00 02 5C B3 D7 A9																	
[Modify RX1 and RX2 timing to Z second delay (OTAA)]																	
D	2	0	12	125	-30.0	----	1	0003	1	0	0	-	-	224	U	TriggerJoinReq	
60 01 00 00 00 80 03 00 E0 06 09 B8 D9 8D																	
U	0	5	7	125	10.7	REF	-	----	0	0	-	0	-	---	-	Join-request	Nonce=F6BB
00 00 00 00 00 00 00 00 00 18 75 34 6D 32 34 30 35 BB F6 79 A4 ED 03																	
D	0	5	7	125	-30.0	----	5	----	0	0	0	-	0	---	-	Join-accept	RX1DR0ffset=0,RXDelay=2,RX2DR=0
20 C6 10 AF 01 00 00 01 00 00 00 00 02 28 DC 06 B0																	
U	1	0	12	125	10.8	7.10s	-	0000	0	0	-	0	0	002	U	DataUp	ByteLen=16
40 01 00 00 00 00 00 00 02 00 27 85 0A 5A 00 6E 00 00 00 00 00 00 FF FF 0B 9C 27 BD																	
D	R2	0	12	125	-30.0	----	2	0000	1	0	0	-	-	224	U	ActivateTM	
60 01 00 00 00 80 00 00 E0 01 01 01 01 83 1F 19 95																	
U	0	0	12	125	10.8	9.28s	-	0001	1	0	-	0	0	224	U	DownlinkCounter	Cnt=0
40 01 00 00 00 80 01 00 E0 00 00 CE 19 B7 72																	
D	0	0	12	125	-30.0	----	2	0001	1	0	0	-	-	224	U	EchoRequest	EchoLen=3
60 01 00 00 00 80 01 00 E0 04 01 02 03 0B 0B 90 45																	
U	1	0	12	125	10.8	5.28s	-	0002	1	0	-	0	0	224	U	EchoResponse	Echo PASS
40 01 00 00 00 80 02 00 E0 04 02 03 04 CC A3 C2 6A																	
D	R2	0	12	125	-30.0	----	2	0002	1	0	0	-	-	224	U	EchoRequest	EchoLen=3
60 01 00 00 00 80 02 00 E0 04 01 02 03 2B A6 73 F6																	
U	0	0	12	125	10.9	10.2s	-	0003	1	0	-	0	0	224	U	EchoResponse	Echo PASS
40 01 00 00 00 80 03 00 E0 04 02 03 04 BF 47 9A E0																	
U	2	0	12	125	10.9	4.95s	-	0004	1	0	-	0	0	224	U	DownlinkCounter	Cnt=2
40 01 00 00 00 80 04 00 E0 00 02 32 E0 2E B8																	
[Addition of a single channel (OTAA)]																	
D	2	0	12	125	-30.0	----	2	0003	1	0	0	-	-	224	U	TriggerJoinReq	
60 01 00 00 00 80 03 00 E0 06 75 33 9C 0C																	
U	2	5	7	125	10.7	REF	-	----	0	0	-	0	-	---	-	Join-request	Nonce=15AF
00 00 00 00 00 00 00 00 00 18 75 34 6D 32 34 30 35 AF 15 7F 05 08 99																	

