

NIRY

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Single Service / Single Operator – R1U RF Specifications (BU 2 RF connectors)

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Downlink

Link Specifications	CDMA			GSM			LMR/iDEN	SMR	Paging	TDMA	
	800	1800	1900	900	1800	1900	800	900	900	800	1900
Nominal Outut Power At Antenna Port Per Carrier per Band(dBm)											
Composite (1 carrier)	18	18	18	11	11	21	24	24	24	24	21
2 carriers	14	14	14	8	8	18	21	21	21	21	18
3 carriers	13	13	13	6	6	16	19	19	19	19	16
10 carriers	-	-	-	1	1	11	14	14	14	14	11
Nominal Gain at Antenna Port (dB)	18	18	18	7	7	14	18	18	18	18	14
Nominal Input Power At Antenna Port Per Carrier per band(dBm)											
Composite (1 carrier)	0	4	4	4	4	7	6	6	6	6	7
2 carriers	-4	0	0	1	1	4	3	3	3	3	4
3 carriers	-5	-1	-1	-1	-1	2	1	1	1	1	2
10 carriers	-	-	-	-6	-6	-3	-4	-4	-4	-4	-3
Gain Flatness (dB)											
Over Band	±2.0	±2.5	±2.5	±2.0	±2.5	±2.5	±2.0	±2.0	±2.0	±2.0	±2.5
Over Block	±1.5	±1.8	±1.8	±1.5	±1.8	±1.8	±1.5	±1.5	±1.5	±1.5	±1.8
Max. Second Order Intermodulation Distortion (IMD) (dBm)	-			-	-	-	-	-	-	-	-
Max. Intermodulation Distortion (IMD) (dBm)	-13			-36	-30	-13	-13	-13	-13	-13	-13
Waveform Quality (p) at Max. Power	>96			-			-			-	-
Spurious Emission (BW=30kHz) (dBc)	>45 @ ± 885 KHz			-			-			-	-
System Group Delay (μ s)	<0.1			-			-			-	-

Uplink

Link Specifications	CDMA			GSM			LMR/iDEN	SMR	Paging	TDMA	
	800	1800	1900	900	1800	1900	800	900	900	800	1900
Nominal Gain at Antenna Port (dB)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Min. Input IP3 (dBm), IS-136	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Max. NF (dB)	14	15	15	16	17	15	14	14	14	14	15
Gain Flatness (dB)											
Over Band	±2.0	±2.5	±2.5	±2.0	±2.5	±2.5	±2.0	±2.0	±2.0	±2.0	±2.5
Over Block	±1.5	±1.8	±1.8	±1.5	±1.8	±1.8	±1.5	±1.5	±1.5	±1.5	±1.8
SFDR	72	74		65			72	72	72	72	74
Waveform Quality (ρ) at Max. Power	>96			-			-	-	-	-	
Spurious Emission (BW=30kHz) (dBc)	>45 @ ± 885 KHz			-			-	-	-	-	
System Group Delay (μ s)	<0.1			-			-	-	-	-	

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