

초고주파 통신 부품 기술 ICC

Microwave & Millimeter-wave
Circuit & Communication Technology

HANYANG UNIVERSITY ERICA
Education Research Industry Cluster @ Ansan

■ 소요기술 (종합)

	Military	Common	Commercial mobile
1	능동 위상 배열	Millimeter wave MMIC	High linearity amplifier
2	위성 SAR 시스템	Millimeter wave circuit module	SOI, SiGe 기술 동양
3	GaN 소자 기반 시스템	5G Power amplifier	RF 소자 characterization 기술
4		High power amplifier	RF modeling
5			RF ESD Solution

■ 소요기술 (종합)

	Sub 6 GHz RF component	Millimeter wave Component	RF device / Modeling
1	Commercial Front-end application	n257(26.5 GHz – 29.5 GHz), n258(24.25 GHz – 27.5 GHz), n260(37 GHz – 40 GHz) Power Amplifier 설계 기술	SOI 기술 동향
2	n77(3.3 GHz – 4.2 GHz), n78(3.3 GHz – 3.8 GHz), n79(4.4 GHz – 5 GHz) Power Amplifier 설계 기술	Microwave & Millimeter-wave MMIC	SiGe 기술 동향
3	High Power Amplifier, High Linearity Amplifier	Millimeter-wave High Power amplifier	GaN Device
4	High-Power High-Speed RF Switch	탐색기(초소형 레이다) 설계 기술	RF 소자 Characterization
5	High-RF ESD Solution		