





















Generation	1G	2G	2.5G	3G	4G
Time frame	1980s	1990s	Late 1990s	2000s	2010s
Signal type	Analog	Digital	Digital	Digital	Digital
Access technology	FDMA/FD D	TDMA/FDD CDMA/FDD	GPRS EDGE	CDMA2000 W-CDMA TD-SCDMA	MC-CDMA OFDM
Media type	Voice	Mostly voice, low-speed data (10 ~ 70 kbps)	Mostly voice, high-speed data (10 ~ 384 kbps)	Voice, high- speed data (144 kbps ~ 2Mbps)	Converged voice, data and MM; all If
Example systems	AMPS NMT TACS	GSM DCS1900 IS-54/95/136 CDMAOne	GPRS EDGE	CDMA2000 W-CDMA TD-SCDMA	































