

## commandN 156

# techTIPS: Cellular Data Technologies

Generation	3GPP Networks (GSM / UMTS) ~ 85% globally	Approximate D/L Data Rates	3GPP2 Networks (CDMA) ~ 15% globally	Notes
<b>1G</b> (1980s)	<b>AMPS, NMT, TACS, etc.</b>			<b>Analog cellular systems</b>
<b>2G</b> (1990s)	<b>GSM</b>	<b>up to 144 kbit/s</b>	<b>cdmaOne</b>	<b>First digital cellular systems</b>
<b>2.5G</b>	<b>GPRS</b>		<b>CDMA2000 1xRTT (up to 144 kbit/s)</b>	<b>Enhanced versions of 2G networks</b>
<b>2.75G</b>	<b>EDGE</b> (Evolved EDGE up to 1 Mbit/s)	<b>up to 236 Mbit/s</b>		
<b>3G</b> (2000s)	<b>UMTS (WCDMA)</b>	<b>up to 3.1 Mbit/s</b>	<b>CDMA2000 1x (EVDO)</b>	<b>Latest cellular networks</b> (IMT-2000 global standards)
<b>3.5G</b>	<b>UMTS (HSPA)</b>	<b>up to 7.2 Mbit/s</b>	<b>CDMA2000 3x (EVDO Rev B)</b>	