



**TABLE 4.2 2G, 2.5G, and 3G Comparison**

2G Technology	Data Capability	Spectrum Required	Comment
GSM	9.6 or 14.4 kbps	200 kHz	Circuit-switched data
IS-136	9.6 kbps	30 kHz	Circuit-switched data
iDEN	9.6 kbps	25 kHz	Circuit-switched data
CDMA (IS-95A/ J-STD-008)	9.6 bps/14.4 kbps, 64 bps (IS-95B)	1.25 MHz	Circuit-switched data 2G : Circuit-switched
2.5G Technology	Data Capability	Spectrum Required	Comment
HSCSD	28.8/56 kbps	200 kHz	Circuit/packet data
GPRS	128 kbps	200 kHz	Circuit/packet data
Edge	384 kbps	200 kHz	Circuit/packet data
CDMA2000-1XRTT	153 kbps	1.25 MHz	Circuit/packet data
3G Technology	Data Capability	Spectrum Required	Comment
WCDMA	144 kbps vehicular 384 kbps outdoors 2 Mbps indoors	5 MHz	Packet data
CDMA2000-DO/EV	144 kbps vehicular 384 kbps outdoors 2 Mbps indoors	1.25 MHz	Packet data
TD-CDMA (Ultra TDD)	144 kbps vehicular 384 kbps outdoors 2 Mbps indoors	5 MHz	Packet data
TD-SCDMA	144 kbps vehicular 384 kbps outdoors 2 Mbps indoors	1.6 MHz	Packet data

Note: TD-SCDMA and TD-CDMA are TDD and are unpaired.