

Technical Specification & Description

1.1 Features

1. Support for major air interfaces including CDMA2000® 1X, CDMA2000 1xEV-DO Rev. 0, cdmaOne™ IS-95A/B
2. Support the Release A of the CDMA2000 1X standard, for multimedia data applications, with offering data transmission up to 307 kbps data in forward and reverse links simultaneously.
3. Support IS-856 1xEV-DO, high-speed peak data rates of 2.4 Mbps on forward link and 153 Kbps on reverse link.
4. Easy to connect to Internet using Easy Wireless Net running on Windows2000 and XP.

1.2 Applications

1. Internet connection through USB port

2.2 Technical Specifications

2.2.1 General Specifications

Table2-1 General Specifications

Parameters	Descriptions
External Access	Code-Division-Multiple-Access (CDMA)
CDMA Protocol	IS-95 A/B, IS-98A, IS-126, IS-637A, IS-707A, IS-2000,IS-856
Data Rate CDMA2000 1X 1xEV-DO	153 Kbps max. on both the forward and reverse links Forward link: 2.4 Mbps max. Reverse link: 153 Kbps max.
System Memory	256Mbytes SDRAM and 256 Mbytes NAND Flash
Transmit/Receive Frequency Interval	45MHz for Cellular and 80MHz for PCS
RF technology	Zero Intermediate Frequency
Number of Channel	832 for Cellular and 42 for PCS
Operating Voltage	Battery : DC +3.4V ~ +4.3V External Operating and Charging DC : DC +5.0V
Current Consumption	1. External DC Stand by mode: Idle (110mA), Sleep (less than 9mA) Busy mode:650mA (Max) 2. Battery Stand by mode: Idle (110mA), Sleep (less than 8mA) Busy mode: 650mA (Max)
Operating Temperature	-30°C ~ +60°C
Frequency Stability	±300Hz for Cellular and ±150Hz for PCS
Antenna	2 Internal Antennae
Size	59mm(W) X 101mm(L) X 26.0mm(H) with case 56mm(W) X 100mm(L) X 15.0mm(H) without case
Weight	About 124g (with Battery), 61g(without battery)
External Interface	USB for Data and Easy Wireless Net Program
User Interface Software	Easy Wireless Net

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2.2.2 Receiver Specifications

Table 2-2 Receiver Specifications

Parameters	Descriptions
Frequency Range Cellular PCS	869.04 ~ 893.97 MHz 1931.25 ~ 1988.75MHz
Sensitivity 1xRTT EVDO	Below -104.0 dBm/1.23MHz Below -105.5 dBm/1.23MHz
Input Dynamic Range 1xRTT EVDO	-25 dBm/1.23MHz ~ -104.0dBm/1.23MHz -25 dBm/1.23MHz ~ -105.5dBm/1.23MHz
Single Tone Desensitization The FER in each test shall not exceed 1.0% with 95% confidence	1xRTT Band Classes 0 (-30dBm @900KHz and -30dBm @-900KHz): Below -101.0 dBm/1.23MHz Band Classes 1 (-30dBm @1250KHz and -30dBm @-1250KHz): Below -101.0 dBm/1.23MHz EVDO Band Classes 0 (-30dBm @900KHz and -30dBm @-900KHz): Below -102.4 dBm/1.23MHz Band Classes 1 (-30dBm @1250KHz and -30dBm @-1250KHz): Below -102.4 dBm/1.23MHz
Intermodulation Spurious Response Attenuation (Two interfering CW tones) The FER in each test shall not exceed 1.0% with 95% confidence	1xRTT Band Classes 0 Two tone (-43 dBm @900KHz and 1700KHz): Below -101.0dBm/1.23MHz Two tone (-32 dBm @900KHz and 1700KHz): Below -90.0dBm/1.23MHz Two tone (-21 dBm @900KHz and 1700KHz): Below -79.0dBm/1.23MHZ Band Classes 1 Two tone (-43 dBm @1250KHz and 2050KHz): Below -101.0dBm/1.23MHz Two tone (-32 dBm @1250KHz and 2050KHz): Below -90.0dBm/1.23MHz Two tone (-21 dBm @1250KHz and 2050KHz): Below -79.0dBm/1.23MHZ EVDO Band Classes 0 Two tone (-43 dBm @900KHz and 1700KHz): Below -102.4dBm/1.23MHz Two tone (-32 dBm @900KHz and 1700KHz): Below -91.4dBm/1.23MHz Two tone (-21 dBm @900KHz and 1700KHz): Below -80.4dBm/1.23MHZ Band Classes 1 Two tone (-43 dBm @1250KHz and 2050KHz): Below -102.4dBm/1.23MHz Two tone (-32 dBm @1250KHz and 2050KHz): Below -91.4dBm/1.23MHz Two tone (-21 dBm @1250KHz and 2050KHz): Below -80.4dBm/1.23MHZ
Spurious Wave Suppression	Below -80dBc

2.2.3 Transmitter Specifications

Table 2-3 Transmitter Specifications

Parameters		Descriptions
Frequency Range	Cellular	824.04 ~ 848.97 MHz
	PCS	1851.25 ~ 1908.75MHz
Nominal Max Power		0.28 W (24.5dBm)
Peak Power in Operation Mode		0.40W (26.0dBm)
Minimum Controlled Output Power		Below -50dBm
Max Power Spurious	Cellular	900KHz: Below -42dBc/30KHz
		1.98MHz: Below -54dBc/30KHz
	PCS	1.25MHz: Below -42dBc/30KHz
		1.98MHz: Below -50dBc/30KHz

2.2.4 Standards

IS-95 A/B, IS-2000, IS-856: Protocol Between MS & BTS

IS-866: 3GPP2 C.S0033-0 Version 2.0: Recommended Minimum Performance Standards for CDMA2000 High Rate Packet Data Access Terminal

IS-98A: Base MS Function

IS-98E: Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Mobile Stations

IS-707: Data Service

IS-657: packet data

USB 2.0 Specification and OTG Supplement: Exchanging data between a host and peripheral

ITU-T G.712: Transmission systems and media, Digital systems and networks

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