

Technical Specification & description

1. General Features

CDMA 2000 1xRTT
IS-95A/B
Standard RS-232E interface
Data transmission up to 153Kbps
Remote control by AT command
Built-in TCP/IP/UDP stack
2-way SMS
Enhanced variable rate codec (EVRC)
Quick Net Connect for fast Internet connection
Telemetry-specific features
Optimized for easy OEM applications
LCD/Keypad interface
GPIO for custom interface
Supports Circuit Data/Fax

2 General Specifications

Parameters	1.1.1. Descriptions
External Access	Code-Division-Multiple-Access (CDMA)
CDMA Protocol	IS-95 A/B, IS-98A, IS-126, IS-637A, IS-707A, IS-2000
Data Rate	153.6Kbps max
Transmit/Receive Frequency Interval	45MHz for Cellular and 80MHz for PCS
Number of Channel	832 for Cellular and 42 for PCS
Operating Voltage	DC +3.4V ~ +4.2V
Current Consumption	Stand by mode: Idle (110mA), Sleep (2mA) Busy mode: 900mA (Max)
Operating Temperature	-30°C ~ +60°C
Frequency Stability	±300Hz for Cellular and ±150Hz for PCS
Antenna	MCA Connector, 50ohm
Size	39 X 49 X 6.0mm with case
Weight	About 20g
External Interface	RS-232, Digital/Analog Audio, LCD, Keypad, Ringer External Reset Control

2.1 Receive Specifications

Parameters	1.1.2. Descriptions
Frequency Range	869.04 ~ 893.97 MHz for Cellular and 1931.25 ~ 1988.75MHz for PCS
Sensitivity	Below -104 dBm
Interference Rejection	Single tone (-30dBm @900KHz): Below -101dBm Two tone (-43 dBm @900KHz and 1700KHz): Below -101dBm Two tone (-32 dBm @900KHz and 1700KHz): Below -90dBm Two tone (-21 dBm @900KHz and 1700KHz): Below -79dBm
Spurious Wave Suppression	Below -80dBc
Input Dynamic Range	-25 dBm ~ -104dBm

2.2 Transmit Specifications

Parameters	1.1.3. Descriptions
Frequency Range	824.04 ~ 848.97 MHz for Cellular and 1851.25 ~ 1908.75MHz for PCS
Nominal Power	0.32 W (24.7dBm)
Minimum Controlled Output Power	Below -50dBm
Max Power Spurious	900KHz: Below -42dBc/30KHz 1.98MHz: Below -54dBc/30KHz

3 Standards

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

IS-96A: Voice Signal Coding

IS-98A: Base MS Function

IS-126: Voice Loop-Back

IS-637: Short Message Service

IS-707: Data Service