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Specifications of ADA-K450 EVDO Data Card (450MHz)



R1.0

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Index

1	INTRODUCTION	1
2	SPECIFICATIONS	1
2.1	MAIN FEATURES	1
2.2	HARDWARE SPECIFICATIONS	2
2.3	CERTIFICATION REQUIREMENTS	2
2.4	SOFTWARE SPECIFICATIONS	3
2.4.1	Driver	3
2.4.2	Modem utility software.....	3
3	REFERENCE TECHNICAL STANDARD.....	3

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1 Introduction

Base on the CDMA 2000 EVDO Rev A technology, AsiaTelco ADA-K450 CDMA EVDO Rev A Data Card provides you high secrecy, high speed packed data service. ADA-K450 can be used as an ADSL modem, a mobile phone. You could connect to the Internet, send and receive SMS messages, and make phone calls via ADA-K450.

2 Specifications

2.1 Main Features

- ✧ CDMA2000 EVDO Rev. A
- ✧ Backward compatible to CDMA 2000 EVDO Rev 0
- ✧ Backward compatible CDMA 2000 1x RTT, IS-95 A/B
- ✧ Operates at 450MHz (Block A, C, F)
 - ADA-K450A : Bloack-A
 - ADA-K450C : Bloack-C
 - ADA-K450F : Bloack-F
- ✧ High Speed Data Rate: 3.1Mbps on Forward link and 1.8Mbps on Reverse Link
- ✧ Support CDMA 2000 1x data rate: 153.6Kbps on both Forward and Reverse Link
- ✧ Data, SMS
- ✧ USB 2.0 Interface
- ✧ Be powered internally by Host PC
- ✧ Micro SD Card Slot
- ✧ Built-in Driver and PC Tools
- ✧ OS: Windows 2000, Windows XP, Windows Vista, Windows 7, Linux
- ✧ Microsoft WHQL Certification

2.2 Hardware Specifications

Item	Description	
Technical Standard	CDMA2000 EVDO Rev. A Backward compatible to CDMA 2000 EVDO Rev 0 Backward compatible CDMA 2000 1x RTT, IS-95 A/B	
Frequency band	Block A	Rx: 462.500 MHz–467.475MHz Tx: 452.500 MHz–457.475 MHz
	Block C	Rx: 460.000 MHz–464.800 MHz Tx: 450.000 MHz–454.800 MHz
	Block F	Rx: 489.000 MHz–493.480 MHz Tx: 479.000 MHz–483.480 MHz
Chipset	VIA CBP 7.0	
Internal Memory	128MB NAND+ 64MB DDR	
External interface	USB port: USB 2.0	
	In-Use Indicator	
	Micro-SD Card interface: up to 8GB	
	R-UIM Card interface	
High Speed Data Rate	3.1Mbps on Forward link 1.8Mbps on Reverse Link	
Voice Codecs	Not support	
Dimensions	95*28*10mm	
Color Options	Grey/Silver	
Weight	21g	
Operation Temperature	-20°C ~ 55°C	
Storage Temperature	-40°C ~ 75°C	
Operation Humidity	0% ~ 95%	

Table 1 Hardware Specifications of ADA-K450 EVDO Rev A Data Card

2.3 Certification Requirements

◇ CDG-1, CDG-2, CDG-3

2.4 Software Specifications

2.4.1 Driver

- ✧ Built in the Data Card;
- ✧ Supported OS: Windows 2000, Windows XP, Windows Vista, Windows 7, Linux;
- ✧ Language: Chinese, English;
- ✧ Microsoft WHQL Certification.

2.4.2 Modem utility software

- ✧ Supported OS: Windows 2000, Windows XP, Windows Vista, Windows 7, Linux;
- ✧ Support R-UIM/Non R-UIM mode
- ✧ The option to change working mode of the device: EVDO only, 1x only.
- ✧ Indicator: Signal Strength, Working mode, Time and Date, Operator Name
- ✧ Show Download/Upload speed
- ✧ Connection History
- ✧ SMS Menu
- ✧ Call History Menu
- ✧ Phone Book Menu

3 Reference technical standard

- ✧ C.S0011-A Recommended Minimum Performance Standards for CDMA2000 Spread Spectrum Mobile Stations
- ✧ C. S.0033-A Recommended Minimum Performance Standards for cdma2000 High Rate Packet Data Access Terminal
- ✧ TIA/EIA/IS-95-A Mobile Station-Base Station Compatibility Standard for Dual-Mode Spread Spectrum Systems
- ✧ TIA/EIA/IS-127 Enhanced Variable Rate Codec, Speech Service Option 3 for Wideband Spread Spectrum Digital Systems
- ✧ TIA/EIA/IS-637 Short Message Services for Wideband Spread Spectrum Digital Cellular Systems
- ✧ TIA/EIA/IS-657 Packet Data Services for Wideband Spread Spectrum Digital Cellular Systems
- ✧ TIA/EIA/IS-683-A Over-the-Air Service Provisioning of Mobile Stations in Spread Spectrum Systems
- ✧ TIA/EIA/IS-707-A Data Service Options for Spread Spectrum Systems
- ✧ TIA/EIA/IS-820 Removable User Identity Module (R-UIM) for Spread Spectrum Systems
- ✧ TIA/EIA/IS-856 CDMA 2000 High Rate Packet Data Air Interface Specification
- ✧ TIA/EIA/IS-866 Recommended Minimum Performance Standards for cdma2000 High Rate Packet Data Access Terminal
- ✧ TIA/EIA/IS-878 CDMA 2000 1x/EV-DO Inter-Operability Specification (IOS) for CDMA 2000 Access Network Interfaces
- ✧ TIA/EIA/IS-890 Test Application Specification (TAS) for High Rate Packet Data Air Interface
- ✧ TIA/EIA-898 Signaling Conformance Tests for cdma2000 Spread Spectrum Systems
- ✧ TIA-919 Signaling Conformance Standard for cdma2000 High Rate Packet Data Air Interface
- ✧ TIA/EIA/IS-2000-1 Introduction to cdma2000 Standards for Spread Spectrum Systems
- ✧ TIA/EIA/IS-2000-2 Physical Layer Standard for cdma2000 Spread Spectrum Systems
- ✧ TIA/EIA/IS-2000-3 Medium Access Control (MAC) Standard for cdma2000 Spread Spectrum Systems
- ✧ TIA/EIA/IS-2000-4 Signaling Link Access Control (LAC) Standard for cdma2000 Spread Spectrum Systems
- ✧ TIA/EIA/IS-2000-5 Upper Layer (Layer 3) Signaling Standard for cdma2000 Spread Spectrum Systems