

ISDBT2000E 1 Segment ISDB-T Express Card



Introduction

ISDB-T Express card is intended for reception of ISDB-T compliant with ISDB-T 1 Segment, in combination with the tuner receiver; all functions are integrated to deliver a corrected MPEG-4/H.264 given ISDB-T signal with 6MHz bandwidth.

This device is specially designed for next generation of notebook PCs. It provides users with a streamlined solution for ISDB-T 1 Seg tuning to notebook PCs and set up for mobile applications.

General Specifications

- ISDB-T Tuner: Digital terrestrial TV 1 Seg receiving
Bandwidth setting 6MHz for ISDB-T broadcasting
- Interface: Compliant with Express Card form factor (USB 2.0 Type)
- I/O: one RF connector for ISDB-T antenna input
- Driver: Compliant by Microsoft 32 bits BDA driver structure (WDK)

Features:

- High sensitivity: -97dBm [typ.] (QPSK, CR1/2)
- Low power consumption: 500mW~550mW
- Operating Temperature: 5°C ~50°C
- Interface: DigiTVer ISDB-T 1 Seg Express officially certified with Express Card logo is the next generation of card bus interface
- Receiver Channel: UHF 13~69CH (470~806 MHz)
- Copy Protection: Output AES 128 bit
- Bus Power: Express Card 34mm (3.3V ±0.3V)
- Software decoder: H.264 Video Decoder, MPEG-4 HE-AAC @ L2 Audio Decode
- Channel List: TV channel list and channel information with program list window
- Misc: Video quality control for different tolerable level, Hyper-Teletext Multi-Language, De-interlace, Channel Surfing, Schedule Recording, Hardware Encryption & copy once.
- Video Control: Brightness/Contrast / Hue / Saturation control
- Skin: Changeable skin (Only 1 set of first release on MP)
Volume control
Status Display: RF strength, channel service name, playback time and progress bar
- EPG: Show channel schedule and description, iEPG (Optional)
- Software decoder: H.264 Video Decoder and MPEG-4 HE-AAC @ L2 Audio Decoder
- Channel List: TV channel list and Channel information with program list window
- Video Control: Brightness/Contrast/Hue/Saturation control
- Misc:

- ◆ Video quality control for different tolerable level
- ◆ Time-shifting/Multi-Language/De-interlace
- ◆ Channel Surfing/Schedule Recording
- ◆ EPG Show channel schedule and description
- ◆ Hyper-Teltext
- ◆ iEPG (Optional)
- Skin:
 - ◆ Changeable skin (1 set of skin for user change)
 - ◆ Volume control
 - ◆ Status Display: RF strength, Channel service name, playback time and progress bar.

System Requirements:

- OS: Microsoft Windows XP Service Pack 2, Windows 2000 with Service Pack 4
- Dorect X 0/-c pr jogger
- DirectX 9.0a or higher environment
- CPU: Processor with MMX/SIMD/3DNow! Instruction set (1.5GHz)
- System RAM: 128MB or higher, 512MB recommended
- 1GB free Hard Disk space to install AP and saved recording TV program.
- Display card with overlay support (64MB RAM)

Power Condition:

- Power Voltage: DC +3.3V ±10%
- Power Consumption: AP ON 156.5mA, AP OFF 152.2mB

Environment Condition:

- Storage: -40°C~60°C
- Humidity: Operation 0~90% RH, Storage 0~90% RH

I/O Feature:

Interface	PCMCIA Define			
Form Factor				
	PIN 1(GND)	GND_USB	PIN14(+3.3V)	+3.3V
	PIN2(USB-)	USB-	PIN15(+3.3V)	+3.3V
	PIN3(USB+)	USB+	PIN16(CLKREQ#)	NC
	PIN4(CPUSB#)	GND_USB	PIN17(SPPE#)	NC
	PIN5(SERVED)	NC	PIN18(REPCLK-)	NC
	PIN6(SERVED)	NC	PIN19(REPCLK+)	NC
	PIN7(SERVED)	NC	PIN20(GND)	GND_USB
	PIN8(SMBCLK)	NC	PIN21(PERn0)	NC
	PIN9(SMBDATA)	NC	PIN22(PERp0)	NC
	PIN10(+1.5V)	NC	PIN23(GND)	GND_USB
	PIN11(WAKE#)	NC	PIN24(PETn0)	NC
	PIN12(+3.3AUX)	NC	PIN25(PETp0)	NC
	PIN13(PERST#)	NC	PIN26(GND)	GND_USB

