TONGSHI WorldSpace Adapter User Manual

Please read this manual carefully and follow its instructions before using Tongshi WorldSpace Adapter ("Adapter").

Precautions:

- While the power is on, the Adapter's internal or external wire should not be unplugged or disconnected. This misuse may damage the Adapter, antenna or Computer permanently.
- Never place the Adapter in close proximity to electric motors or other equipment generating strong magnetic fields that may cause malfunctions or corrupt image data.

Trademark Acknowledgements:

- TONGSHI is a trademark of Xi'an Tongshi Data Corp. Limited.
- Xi'an Tongshi Technology Limited ("Xi'an Tongshi") is authorized to use TONGSHI as agreed.
- & WorldSpace is a trademark of WorldSpace Corp.
- Xi'an Tongshi is authorized to use \swarrow WorldSpace as agreed.
- Other names and products not mentioned above may be registered trademarks or trademarks of their respective companies.
- Copyright@2003 Xi'an Tongshi Technology Limited.
- All rights reserved.

Disclaimers:

- While every effort has been made to ensure that the information contained in this manual is accurate and complete, no liability can be accepted for any errors or omissions.
- Xi'an Tongshi reserves the right to change the specifications of the hardware and software described herein at any time without prior notice.
- Any software not provided upon the sale of the Adapter may be considered additional accessories to be purchased from Xi'an Tongshi or third parties.
- No part of this manual may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without the prior written permission of Xi'an Tongshi.
- Xi'an Tongshi makes no warranties for damages resulting from corrupted or lost data due to a mistaken operation or malfunction of the Adapter, the software, personal computers, peripheral devices, or use of non Tongshi Accessories.

- Xi'an Tongshi has no influence over the contents or services delivered by the Adapter and will not be responsible for the contents or services in any respects.
- Please note that the Adapter are intended for personal use and should never be used in a manner that infringes upon or contravenes international or domestic copyright laws and regulations.
- The Radio's warranty is only effective in the country of sale. If a problem arises while the Radio is in use, please contact the dealer who sold you the Radio.

CONTENT

Chapter One Preparing the Adapter

1.	Services-		4
2.	Technical	Feature	4
3.	Connecto	rs	5

Chapter Two Radio Service

1.	Preparing Computer	6
2.	Install Software	6
3.	Connect Adapter with Computer	· 8
4.	Install DAMB-A Driver	. 9
5.	Radio Service	9
6.	Data Service	13
	div A. Deinstell the Driver Menuelly	

Appendix A	Reinstall the Driver Manually	14
Appendix B	Service Website of Tongshi Corp	15
Appendix C	Country-List for AsiaStarTM	1 6
Appendix D	Country-List for AfriStarTM	17

Chapter One Preparing the Adapter

1. Services

TONGSHI DAMB-A WorldSpace computer adapter is equipped to receive all WorldSpace audio and data programs worldwide including special services in China. The adapter's USB interface, compact size, low power consumption and easy-to-carry features and relatively low-price-advantage make it an optimal choice for PC or notebook's WorldSpace services reception.

WorldSpace Satellite Coverage map:



2. Technical Feature



	Item	Spec
1	Name	WorldSpace Adapter
2	Туре	DAMB-A
3	Band	WorldSpace band
4	RF frequency	1452-1492 MHz
5	Modulation	QPSK
6	Audio coding	MPEG 1, 2, 2.5 Layer 3
7	Inputs	WorldSpace Antenna
8	Interface	USB 1.1
9	Receiving Rate	Up to 128 Kbps
10	Power Source	From USB cable
11	Consumption	Less than 1 Watt
12	Operation System	Windows 98SE/Me/2000/XP
13	Dimensions	132mm*91mm*26mm
14	Weight	Approx: 150g (without antenna)

3. Connectors



Two connectors placed on rear of Adapter. They are:

Sign	Name	Functions
æ	USB connector	Connect to PC with USB cable
	F-Type connector	Connect to WS antenna

Chapter Two Radio Service

Installation steps

Install application and drivers =>turn off computer =>attached hardware If missing step, please according to appendix A to retry.

1. Preparing Computer

The basic computer requirements are as follows:

- Computer: X86 PC, Pentium II 266 or higher.
- Operation system: Windows 98SE/Me/2000/XP.
- Monitor: multimedia monitor, 800*600, 256 colors or higher.

2. Install Software

Notice: Software installation operation should be done firstly. DAMB software cannot work under Win95/WinNT4.

Put DAMB software CD into CD-ROM, do installation operation step by step as follows:

 "Choose Setup Language" dialog box pops up, select a language from the list, click "OK" to continue.



• "Welcome" dialog box pops up, click "Next" to continue.



 "Software License Agreement" dialog box pops up, click "Yes" to continue.



 "User Information" dialog box pops up, input correct information of Name, Company. Don't modify Serial item, it's reserved for future. Click "Next" to continue.

Jser Information	Type your name below. You mu	ist also type the name of the
	Ngme: Company Sud Work to and the Dompany: Tongshi Senial: WS-1234557830	
	< <u>B</u> ack	Next > Cancel

 "Choose Destination Location" dialog box pops up, select destination folder and click "Next" to continue.

Choose Destination Loca	ation	×
	Setup will install DAMB in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder. You can choose not to install DAMB by clicking Cancel to east Setup.	
as 9	Destination Folder E:\TS\TSDAB Browse	J
	< Back Cancel	

• "Select Program Folder" dialog box pops up, click "Next" to continue.

Select Program Folder		×
Recel Program Folder	Setup will add program icons to the Program Folder isted below. You may type a new folder name, or select one from the existing Folders ist. Click Heat to continue. Program Folders: WorkSpace Start Services Existing Folders: Accessories Games Dnine Services PowerQuest Pathion Aggis 6.0 StartUp WorkSpace Client Services	_
	< <u>R</u> ack <u>N</u> ext > Cancel	_

 "Setup Complete" dialog box pops up, select "ShutDown And PowerOff" and click "Finish" to finish installation. Computer will shut down automatically.



Note: In Win2000/XP, if "Digital Signature Not Found" dialog box pops up, click "Yes" to continue.

3. Connect Adapter with Computer

Notice: Connecting Adapter with Computer must succeed the installation of software.

- Make sure both computer and Adapter power are off.
- Connect Antenna, Adapter and Computer.



• Fix antenna:

In general, you only need to set up Antenna within line of sight of the WorldSpace Satellite you want to receive the services from. For example, from your location, AfriStar is at your Southwest direction, if you can make Antenna face southwest without blockage of sky, you may receive its signal. After some angle and direction adjustments, you will have a better reception.

For more precise and professional analysis, here is certain operation:

- Elevation angle and azimuth are related with user's location.
- Please check the relevant angle information from Appendix F and G of this manual.
- Adjust antenna orientation and make it face to WorldSpace Satellites.



For example, in Shanghai, you can find out values of Elevation angle and Azimuth from Appendix D: Elevation angle=49 and Azimuth=-30. Then, put antenna face to up sky (49°) of southwest (-30°) .

Note: Approximate orientation is enough.

4.Install DAMB-A Driver

After software is properly installed and Adapter connection is in order, start up computer. Driver will be installed automatically

Note: In Win2000/XP, when "Digital Signature Not Found" dialog box pops up, click "Yes" to continue. In Win98/Me, when "System Settings Change" dialog box pops up, click "Yes" to continue.

5. Radio Service

MP3 player is software-based player used to play WS audio channel in computer.

1) Run MP3 Player

Double click MP3 player icon in "WorldSpace Client Services" folder. Then, MP3 player interface will be displayed.



2) Scan Channel

You must scan channel when you first use MP3 player:

- Right click on the Main Window and select "Do scan" menu item.
- For the first time, you are prompted to select antenna type.
- "Scan now" pops up, click "Yes".
- Waiting for scanning patiently.
- First channel in "Play List" will be played automatically.
- All channels will be listed after scanning.

Note:

- Scanning is needed when you change antenna type.
- Right click Main Window again and select "Cancel scan" can stop scanning.

3) Play Channel

Double click a channel in Play List window.

4) Main Window



Seven buttons placed in the Main Window. They are:

Sign	Name	Functions
٨	Play	Play Channel
	Stop	Stop playing
	Show/Hide	Show or hide the Play List
0	Config	Select player skin
鬣	Mute	Mute on or off
—() —–	Volume	Volume control
	Balance	Left or right track control

Three items are placed in Main Window. The means of these items are :

Star: WS star name and carrier number.

BC: Broadcast Channel information.

Kbps: Present channel's bit-rate.

Right click Main Window, a menu displayed.



There are ten items for selecting.

Item	Function
Play directly	Play channel using the MP3 decoder embedded
	in the player
Use Winamp	Install Winamp first and run it to play channel.
Do scan	Scan channel
Set antenna	Refer to the label stuck on ANT back and select
type	LINEAR, CIRCULAR or CABLE
Stay in task bar	MP3 player is shown in WINDOWS taskbar
Stay in tray	MP3 player icon is shown in tray at down right
	corner of screen
Set language	When a channel is broadcasted in several
	languages, select a preferential language from
	the list for Player
Add Password	Input audio password *
Advanced Setup	Refresh Play List when BC changed
About	About MP3 player version information

* When receiving a pay channel, appears on the left BC window. To receive it, you need to have a subscription agreement with the services provider and get a set of password (22 or 25 digits number). This function can be achieved by the following operations:

Add Password (PSN:100000000000000)	×		
02029-14184-81080-50677-76	OK Add Delete All Cancel	Edit Password PSN Code: 100000000000000 Please input 22 or 25 characters password: - - OK Cancel	×
1			

OK: Save input password and exit.Add: Add audio password.Delete All: Delete all passwords.Cancel: Exit dialog without saving.

5) Play List Window:

	n Rock	English	BOB	EL1125
IT !	n Pop	English	ULTRAPOP	EL1126
8	n Pop	English	24 X 7	EL1127
	urban	English	POTION	EL1128
	Play	En	UP CNTRY	EL1129
	1.03	En	MAESTRO	EL1130
	Hide list	En	RIFF	EL1131
	Search	En	RITMO	EL1132

All scanned information is displayed in Play List window. There are five columns in the list:

BCID: Broadcast Channel ID, such as EL1125

SC No: Service Component number. No display if only one SC within the BC

Service label: Name of BC provider, such as MAESTRO Language: Language of the channel using, such as English Type: Music type of the channel, such as Rock.

Light or gray means satellite signal on or off. If the icon is light, you can enjoy the channel.

signal.

Right click a channel and a menu displayed. There are five items for selecting.

Item	Function
Play	Play selected channel.
Hide list	Hide Play List Window. Click "Show/Hide play
	list" button to show the window again
Search	Search matched channels*
Show all BCs	Show all the scanned channels in Play List.
Sort list	Sort list by BCID, service label, language or
	program type. The list is arranged in ascending
	order.

* User can filter some favorite channels according to selected language and type. For example, select pop music in English.



6. Data Service

DAMB-R supports DMS, CLASS and TONGSHI DATACAST that used in WorldSpace system now. Data service provider will provide manual of data reception.

Appendix A: Reinstall the Driver Manually

The method is for professional only.

If the driver was installed incorrectly, you can reinstall the driver step by step as follows:

- 1) Open "Control Panel" and double click "System" icon.
- In Win98/Me, "System Properties" dialog box will pop up. Select "Device Manager" and select "USB<->Serial" in other devices.

System Properties interface in Win98/Me:



 In Win2000/XP, "System Properties" dialog box pops up. Select "Hardware" and click "Device Manager...", "Device Manager" window pops up, select "USB<->Serial" in Other devices

System Properties interface in Win2000/XP:

tem Properties	? ×	
eneral Network Identification Hardware User Profiles Advanced		
	🚊 Device Manager	_
Hardware Wizard	<u>Action View</u> ← → 📧 😭	
The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.	□	
11.1.5.2	Disk drives	
Hardware wizard	Display adapters	
	Even Svolven arves	
Device Manager	E Corpy disk drives	
The Device Manager lists all the hardware devices installe	H	
on your computer. Use the Device Manager to change the	E - J Keyboards	
properties of any device.	Mice and other pointing devices	
· · · · · · · · · · · · · · · · · · ·	🗈 🥥 Monitors	
Driver Signing Device Manager	E- Q Other devices	
	The second secon	
Hardware Profiles	🔜 🚽 👔 Ethernet Controller	
Construction of the second data and the second states	USB <-> Serial	
different bardware configurations	Ports (COM & LPT)	
Sector indiaware configurations.	Sound, video and game controllers	
	System devices	
Hardware <u>P</u> rofiles	표·역· Universal Serial Bus concrollers	
OK Cancel A	Vigo	

- 4) In Win98/Me, click "Remove" button (In Win2000/XP, click right button will pop up a menu, then click "Uninstall..."), "Confirm Device Removal" dialog box pops up, click "OK".
- 5) Installation software according to chapter two.
- 6) Please reboot computer to reinstall the driver.

Appendix B Service Website of Tongshi Corp.

<u>http://www.tongshi.com</u> is our company's service website. Some convenient services are provided on the website, include:

- 1) Tongshi company.
- 2) Products introduction.
- 3) Technology support.
- 4) Download the latest update.
- 5) News, forum and applied fields.



Copyright 1999-2004 Xi'an Tongshi Company | Contact Us

If you have any question, please contact to in E-mail:

<u>support@tongshi.com</u>. We shall answer you as soon as possible. Some advices, minds or suggestions are all welcome. Thanks.



WorldSpace AsiaStar™							
"-"of azimuth express so	uthwest	This country coverage list is valid only for an unobstructed					
		line of side connection to the satellite.					
"+"of azimuth express so	outheast						
Country	Azimuth	Elevation	Country	Azimuth	Elev		
Afghanistan	55	33	,		ation		
Christm.lsl. (Australia)	-177	78	Kyrgyzstan	41	33		
Bahrain	72	24	Laos	3	68		
Bangladesh	33	58	Malaysia	-51	84		
Bhutan	30	54	(Kuala Lumpur)	46	85		
Brunei	-65	78	(Kuching)	-74	84		
Burma	24	64	Maldives	83	53		
Cambodia	0	75	Mongolia	2	37		
China	3	51	Nepal	39	50		
(Yining)	32	34	North Korea	-32	38		
(Chongqing)	-3	56	Oman	73	31		
(Canton)	-20	61	Pakistan	55	38		
(Shanghai)	-30	49	Palau	-79	56		
India	52	52	Philippines	-58	66		
(Bombay)	62	47	Qatar	73	24		
(Madras)	64	58	Russian Federation	16	17		
(Kalkutta)	37	58	(Irkutsk)	1	30		
Indonesia	-100	76	(Magadan)	-50	12		
(Medan)	60	82	(Chabarowsk)	-38	27		
(Jambi)	139	88	Saudi Arabia	77	20		
(Jakarta)	-164	82	Singapore	43	88		
(Surabaya)	-135	77	Somalia	87	24		
(Manado)	-86	67	South Korea	-36	42		
Iran	66	25	Sri Lanka	74	60		
Japan	-48	36	Taiwan	-35	57		
(Naha)	-43	50	Tajikistan	47	33		
(Osaka)	-46	38	Thailand	18	74		
(Tokyo)	-50	35	Turkmenistan	59	25		
(Sapporo)	-47	28	United Arab.Emirates	71	28		
Kazakhstan	45	24	Uzbekistan	53	27		
Kuwait	73	20	Vietnam	-4	71		
			Yemen	80	23		

Appendix C Country-List for AsiaStar[™]

Appendix D Country-List for AfriStar[™]



WorldSpace AfriStar [™]							
"-"of azimuth express so	outhwest	This country coverage list is valid only for an unobstructed					
		line of side connection to the satellite.					
"+"of azimuth express s	outheast						
Country	Azimuth	Elevation	Country	Azimuth	Elev		
Afghanistan	-60	29			atio		
Algeria	36	52			n		
Andorra	28	37	Libva	7	58		
Angola	166	75	Madagascar	-125	53		
Armonia	-34	37	Malawi	-135	69		
Armenia	-34	26	Mali	57	56		
Robroin	-30	15	Malta	11	18		
Banin	-52	45	Mauritania	61	40		
Definit	172	05	Mayotto (Franco)		50		
Bolswalla	-1/2	64	Magambique	141	62		
	62	60	Morano	-141	42		
Burundi	-111	79	Morocco	45	42		
Cameroon	56	/8	Nicor	1/0	04		
Cape Verde	/5	36	Niger	34	66		
Centr.African.Repub.	8	82	Nigeria	56	/1		
Chad	8	72	Oman	-64	43		
Comores	-116	60	Pakistan	-66	28		
Congo	102	83	Portugal	41	36		
Corse (France)	17	40	Portugal (Azores)	61	24		
Cyprus	-21	47	Portugal (Madeira)	55	34		
Dem.Rep.of Congo	-136	86	Qatar	-54	45		
Djibouti	-63	62	Rwanda	-103	79		
Egypt	-19	57	Sao Tome and Princi.	89	73		
Equatorial Guinea	82	77	Sardegna (Italy)	18	42		
Eritrea	-52	62	Saudi Arabia	-49	51		
Ethiopia	-64	66	Senegal	71	46		
France	25	33	Seychelles	-101	52		
Gabon	93	79	Sierra Leone	77	51		
Gambia	71	46	Socotra (Yemen)	-71	50		
Georgia	-32	36	Somalia	-79	59		
Ghana	71	63	South Africa	-171	56		
Guinea	73	51	Spain	35	37		
Guniea-Bissau	74	46	Spain (Isl,Baleares)	28	40		
Iran	-51	38	Spain (Isl.Canarias)	58	38		
Iraq	-38	45	Sudan	-33	71		
Israel	-25	50	Swaziland	-158	57		
Italy	13	40	Svria	-29	45		
Ivory Coast	75	50	Tanzania	-115	72		
lomon	-62	50		68	65		
Jordan	202	50	Tunicia	20	18		
Kopyo	-20	70	Turkov	-22	12		
	-89	10	Turkmenistan		30		
Kill (Greece)		49		-51	76		
	-45	40	Upit Arab Emirata	-04 50	10		
Lebanon	-26		Vatican City	12	44		
Lesotho	-166	55	Western Cabara	15	41		
Liberia	/9	54	Vestern Sanara	154	42		
				154			
			Zimbabwe	-155	65		