

C:\Documents and Settings\jst\Desktop\USB kit installation_JST.doc

Page 1 of 10

BROADCAST	S EQUIPMENT	Tech Note	
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<u>Date</u> 6/7/2005	<u>Version :</u> 1.00.02	servers	

1 TABLE OF CONTENT

1	TAB	TABLE OF CONTENT 1	
2	PUR	POSE OF THE DOCUMENT	. 1
3	HAF	RDWARE INSTALLATION	. 2
	3.1 3.2 3.3	INSTALL THE USB CONNECTOR SUPPORT INSTALLING THE USB CABLE CHANGING THE BIOS PARAMETERS TO ENABLE USB ACCESS	. 2 . 3 . 7
4	USB	KEYS SPECIFICATIONS	. 8
5	USB	UPGRADE	. 8
	5.1 5.2	FROM BOOTABLE FLOPPY From the EVS maintenance menu	. 8 . 9
6	TRC	DUBLESHOOTING	10

2 PURPOSE OF THE DOCUMENT

This document describes the necessary steps to install the USB kit upgrade on an XT or XT[2] server.

The installation describes :

- installation of the USB connector support
- installation of the USB cable
- changing the BIOS parameters to enable USB usage.

The USB port on the server allows for installation of software upgrades and transfer of files.

Important note : the USB port can never be used at the same time as the Multicam application.



C:\Documents and Settings\jst\Desktop\USB kit installation_JST.doc

Page 2 of 10

3 HARDWARE INSTALLATION

3.1 Install the USB connector support

1. Remove the MTPC Board from the chassis and flip to the back side. Remove the 2 screws on the front of the IDE drive.



2. Lift up the drive to reveal the 2 holes on the side of the IDE Hard Drive. These will be used for mounting the USB plate to the drive.





C:\Documents and Settings\jst\Desktop\USB kit installation_JST.doc

Page 3 of 10

- 3. Attach the USB mounting plate with the 2 HEX screws provided with the upgrade kit.
- 4. Replace the 2 screws to the back side of the IDE drive securing it to the MTPC board.



3.2 Installing the USB cable

1. Follow the photos to install the USB cable path.





C:\Documents and Settings\jst\Desktop\USB kit installation_JST.doc

Page 4 of 10





C:\Documents and Settings\jst\Desktop\USB kit installation_JST.doc

Page 5 of 10



2. Connect the USB cable to the mother board on the CN5 connector.

WARNING ! The red cable must always be on the pin identified by the white arrow. If this is not the case, the mother board can be destroyed !!





C:\Documents and Settings\jst\Desktop\USB kit installation_JST.doc

Page 6 of 10



The finished MTPC Board should look as follows.





C:\Documents and Settings\jst\Desktop\USB kit installation_JST.doc

Page 7 of 10

3.3 Changing the BIOS parameters to enable USB access

1. During the initial boot sequence press the DEL key to enter to the BIOS, select CHIPSET FEATURES SETUP and press [ENTER] key.

STANDARD CMOS SETUP	INTEGRATED PERIPHERALS	
BIOS FEATURE SETUP	SUPERVISOR PASSWORD	
CHIPSET FEATURE SETUP	USER PASSWORD	
POWER MANAGEMENT SETUP	IDE HDD AUTO DETECTION	
PNP/PCI CONFIGURATION	SAVE & EXIT SETUP	
LOAD BIOS DEFAULTS	EXIT WITHOUT SAVING	
LOAD SETUP DEFAULTS		
••••••••••••••••••••••••••••••••••••••		
•••••••••••••••••••••••••••••••••••••••		

2. Change the value of the parameter ONCHIP USB to ENABLED (change with PAGE UP or PAGE DOWN).

3. Press ESC key to exit of this menu.

ROM PC	I/ISA BIOS (2A6LGI99)
CHIPS	ET FEATURES SETUP
AWARI	D SOFTWARE, INC.
Bank 0/1 DRAM Timing : SDRAM 8/3 SDRAM Cycle Length : 3 Memory Hole : 15M-16M System BIOS Cacheable : Disabled Video RAM Cacheable : Disabled OnChip USB : Enabled USB Keyboard Support : Disabled	LOns (*) ESC : Quit : Select Item F1 : Help PU/PD/+/- : Modify F5 : Old Values (Shift)F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults



C:\Documents and Settings\jst\Desktop\USB kit installation_JST.doc

Page 8 of 10

4. Select the line SAVE & EXIT SETUP press [ENTER] key to validate.

STANDARD CMOS SETUP	INTEGRATED PERIPHERALS	
BIOS FEATURE SETUP	SUPERVISOR PASSWORD	
CHIPSET FEATURE SETUP	USER PASSWORD	
POWER MANAGEMENT SETUP	IDE HDD AUTO DETECTION	
PNP/PCI CONFIGURATION	SAVE & EXIT SETUP	
LOAD BIOS DEFAULTS	EXIT WITHOUT SAVING	
LOAD SETUP DEFAULTS		
••••••	`•↓• <i>←</i> •→••••••	
•••••••••••••••••••••••••••••••••••••••		

4 USB KEYS SPECIFICATIONS

Flash USB devices are supported. They have to be <u>formatted in FAT16</u> to be recognized by the system.

Please note that the driver used does not allow hot-plugging of the USB device. Follow the instructions detailed in the next chapter to upgrade from USB.

5 USB UPGRADE

5.1 From bootable floppy

- Insert the floppy in the floppy drive
- Insert the USB key in the USB port
- (Re)boot the server (with CTRL+ALT+DEL)
- The USB device will be recognized. The following message appears on the DOS VGA :

ID 0 = HD .. OTi Flash Disk #1 : PRI DOS 32MB drive = H:

In this example, H: is the drive letter assigned to the USB device.



kit installation_JST.doc

C:\Documents and Settings\jst\Desktop\USB

Page 9 of 10

5.2 From the EVS maintenance menu

- Insert the USB key in the USB port
- Choose 'upgrade from USB' from the EVS maintenance menu.

Maintenance		
IS LIST	Channel (P)arameters	
COUTS	Ad(v)anced Parameters	
(FY)	(C)onfiguration	
CUTI	(0)ptions	
(FX)	C(1)ear Video Disks	
CHT)	Fo(r)ce Load Clips	
TY)	Phase de(f)inition	
	Default (A)pplication	
CHT)	(D)efault Parameters	
EY)	F(y)nort Log Files	
(CUIT)	Innort Funant Satur Files	
(EV)	Import Funget (V) ouwords Files	
1COM	The second to the second secon	
1600		
CLHN	15 Cal(1)bration	
HORE	Set (T)ime	
ND-ALON	(H)ardware Check	
*	(U)pgrade from USB	
	and the second se	

- The VGA displays the following message :

To UPGRADE the system via USB

- Please INSERT THE USB KEY now

- PRESS ENTER to restart.

To ABORT the upgrade (required to ensure system is not changed)

- Type CANCEL

- PRESS ENTER

- The server will restart and recognize the USB device.
- The following message appears on the DOS VGA :

ID 0 = HD .. OTi Flash Disk #1 : PRI DOS 32MB drive = H:

In this example, H: is the drive letter assigned to the USB device.

Please note that if you want to abort USB upgrade, it is required to use the CANCEL command, otherwise the server will not start normally.

If the USB device is used to collect log files from the server, it is advisable to use the bootable floppy disk. If you are using the command from the maintenance menu, when the file transfer is done, use the CANCEL command to reboot the machine in its normal operation.



C:\Documents and Settings\jst\Desktop\USB kit installation_JST.doc

Page 10 of 10

6 TROUBLESHOOTING

Question : When rebooting the XT the EVS system software does not start. I get a message no device found and I remain in DOS.

Answer : Type Cancel and press Enter. This will reboot the XT and the software will start normally.