

Bear Technologies

www.beartech.com.tw

Section 1: Introduction

1. Accessories

1.1. USBT-02 Test Card * 1



1.2. USBT Cable * 2

Section 2: Common Program Syntax

1-1> Filename: BRUsbTst.exe

1-2> Syntax: (BRUsbTst)

```
BRUsbTst [T??][-Log][Exit?][Create]
Exit0 : Exit Under All Conditions
Exitl : Exit On Pass ( Halt on Error )
Create : Create and Write the Test Result to BearTestReport.log
-Log : Without Saving the Test Result to BearTestReport.log
       (Default): Append the Test Result to BearTestReport.log
T2 : USBT-02 2 Ports test
 T8 : USBT-02 8 Ports test
 T12 : USBT-02 12 Ports test ( Max. 16 Ports )
BRUsbTst
                           : Show Help Message
BRUsbTst T6
                           : 6 Ports
BRUsbtst T16 ExitO
                           : 16 Ports Exit All
BRUsbTst T8 Exitl
                           : 8 Ports Exit On Pass
BRUsbTst T4 Create
                           : 4 Ports Create BearTestReport.log
```

Section 3: Testing Principle

1. Functions

1.1. Functional Test of USB 1.1 & USB 2.0

2. Compatibility

2.1. Motherboard, Notebook, IPC, Server, Hub & PCI Card

3. Efficiency

3.1. The testing procedure only requires one program BRUsbTst.exe to complete the full functional test of all the USB Port

4. Testing Material

- 4.1. USB 1.1 & USB 2.0 Data Transfer
- 4.2. Control Transfer
- 4.3. Bulk Transfer
- 4.4. D+/ D-
- 4.5. VCC/ GND

5. Testing Procedure

- 5.1. Attach USBT-02 Test Card to USB Port
- 5.2. Boot up system to Win XP platform
- 5.3. Run the driver (CyUsb.sys) provided by Cypress
- 5.4. Execute BRUsbTst.exe

6. Demonstration

6.1. USBT-02 Test Card detected in Windows



6.2. Install the driver (CyUsb.sys) provided by Cypress

6.3. Assign the path of driver

皆選擇您的搜尋	和安裝選項。			the second
⊙ 在這些位置	中搜尋最好的驅動程式	0		
使用下列核 裝找到的最]取方塊來限制或擴充包; ;佳驅動程式。	括本機路徑和可卸	除式媒體的預設	搜尋,將安
□搜尋	可卸除式媒體 (軟碟,CI	D-ROM)(<u>M</u>)		
☑ 搜尋	時包括這個位置(0):			
AA.			🖌 🚺 🖌	R)
○ 不要搜尋, 選擇這個選 式最符合您	我將選擇要安裝的驅動; 項來從清單中選取裝置 約硬體。	程式(D) 驅動程式。Windo	ws不保證您所選	取的驅動程

您正要爲這個硬體安裝的軟體: Cypress USB Generic Driver (3 4 1 20)
尚未通過 Windows 標誌測試以確認它與 Windows XP 的相容
性。(<u>告訴我這項測試的重要性。</u>)
程定或受損。Microsoft強烈建議您立即停止這項安 發,並連絡硬體廠商索取已通過Windows標誌測試的
₩ E2 *

6.4. Complete driver installation

檔案(E) 執行(A) 檢視(Y) 說明(H)	
- 🚇 DRIVER-871FD520	
Ⅲ 🥝 DVD/CD-ROM 光碟機	
田 🗃 IDE ATA/ATAPI 控制器	
王 😪 IEEE 1394 匯流排主機控制器	
日 VE SCSI及 RAID 控制器	
C State 控制卡	
王 ② 音效,視訊及遊戲控制器	
田 🐟 處理器	
白 😃 軟碟機	
E → 軟碟機控制卡	
日 😪 通用序列匯流排控制器	
Cypress USB Generic Driver (3.4.1.20)	
Tintel(R) ICHS Family USB Universal Host Controller - 2830	
Link I(R) ICHO Failing USB Universal Host Controller - 2031	

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6.5. Input command in Command Prompt

6.6. Test Screen for a Pass Result

6.7. Test Screen for a Fail Result

BrUsb_Count = 02	Expected_Pass_Count	= 01 Test_Pass_C	ount = 02
Item DeviceName 01> CyUsb-0 02> CyUsb-1	ProductName TestMode USBT-02 USB2.0 USBT-02 USB2.0	TestMessage Compare BULK_EP4_EP8 Compare BULK_EP4_EP8	Result PASS PASS
	FA	ΤL	

Section 4: Test Result

1. Chipsets which have been tested

Intel 915PL	+ ICH6	(GIGABYTEGA-81915PL-G)
Intel 945P	+ ICH7R	(GIGABYTE GA-81945P)
Intel 945G	+ ICH7	(GIGABYTE GA-945GM)
Intel 975X	+ ICH7R	(GIGABYTE G1975X-C)
Intel 965	+ ICH8	(GIGABYTE GA-965GM)
Intel P35	+ ICH9R	(ASUS P5K PRO)
Intel G45	+ ICH10R	(ASUS P5Q-EM)
nVidia GeForce6100/nForce 430		(GIGABYTE M61P-S3)
ATI Radeon	Xpress 200 CrossFire	(ASUS A8R-MVP)
ATI Radeon	Xpress 3200/ULI M1575	(ASUS A8R32-MVP)
ATI RD480/l	JLI M1575	(ABIT AT8)

Section 5: Support

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