

FCC/IC Warning Statement

• Federal Communication Commission Interference Statement

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:
- - Reorient or relocate the receiving antenna.
- - Increase the separation between the equipment and receiver.
- - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- - Consult the dealer or an experienced radio/TV technician for help.
- FCC/IC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This device complies with Part 15 of the FCC/RSS-210 or IC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment complies with FCC/IC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC/IC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.



FCC/IC Warning Statement for Module

- This device is intended only for OEM integrators under the following conditions:
- The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- The transmitter module may not be co-located with any other transmitter or antenna,
- For all products market in US/Canada, OEM has to limit the operation channels in CH1 to CH79(2402~2480MHz) of Bluetooth for 2.4G band by supplied firmware programming tool. OEM shall not supply any tool or info to the end-user regarding to Regulatory Domain change.
- As long as 3 conditions above are met, further <u>transmitter</u> test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).
- **IMPORTANT NOTE:** In the event that these conditions <u>can not be met</u> (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID <u>can</u> <u>not</u> be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.
- End Product Labeling
- This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains FCC ID:MCLBCM92046".
- Manual Information To the End User
- The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module.
- The end user manual shall include all required regulatory information/warning as show in this manual.



NCC 警語

- 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使 用者均不得擅自變更頻率、加大功率或變更原設計之特性及功 能。
- 低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。
- 本模組於取得認證後將依規定於模組本體標示審合格籤,並要求 平台上標示「本產品內含射頻模組: ID編號」



Product Specification

Items	Contents
Bluetooth standard	BT V2.1+EDR
Modulation type	FHSS, GFSK, π /4-DQPSK, 8DPSK
Number of channels	Channel for USA ,Europe and most other countries as below: f=2402+k MHz ,k=0,1,2,3,78
Carrier frequency of each channel	f=2402+k MHz ,k=0,1,2,3,78
Maximum output power to Antenna, power control value	Bluetooth: 1.09dBm
Power Rating (DC/AC, Volt rating)	3.3V+/-5%
I/O Port or data cable if any	USB2.0
Antenna Type, Gain and Connector Type	Gain:2.2 dBi Brand :ethertronics / Model:GB04001-A01 Type : PIFA / Connector : NA
Operation temperature range	0 ~ +55 degree C



To execute ActivePerl



ActivePerl-5.8.4.810-MSWin32-x8... Windows Installer 封裝 12,757 KB







Custom Setup Select the way you want features to be	installed.
Click on the icons in the tree below to chan	age the way features will be installed. ActiveState ActivePerl is a quality-assured distribution of Perl. This feature requires 0KB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 44MB on your hard drive.
Location: C:\Perl\	Br <u>o</u> wse
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	select it
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New features in PPM		
his release of ActivePerl include: ersion 3, which includes a new SPN's "PPM Profile" feature com ecurely and transparently to you asily migrate, reinstall, upgrade ocations. sing the profile functionality requ an always disable or enable the or more information about ASPN ttp://www.ActiveState.com/Prod	s Programmer's Package facility for keeping track of in municates your package insta or ASPN Profile. Saved profile or restore PPM packages in o uires installing a license for A Profile feature later within PP please see ucts/ASPN Perl/.	Manager nstalled packages. alls and updates s allow you to one or more SPN Perl. You M3.
Enable PPM3 to send profile info	o to ASPN	Privacy Policy
	< <u>B</u> ack <u>N</u> ext >	Cancel
	select it	

Add Perl to the PAT	ΓH environment variable	
🗹 Create Perl file ext	ension association	
Create IIS script m	happing for Perl	
Create IIS script m	happing for Perl ISAPI	
	< <u>B</u> ack <u>N</u> ext >	Cancel
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Please wait while the Setup W This may take several minut	(izard installs Activ) es.	ePerl 5.8.4 Build	810.
Status: Copying new files			



Active STATE	Completing the ActivePerl 5.8.4 Build 810 Setup Wizard	
ActivePerl	Serious about Programming in Perl? Get ASPN Perl, the essential package for Perl programmers. ASPN Perl combines everything you need in a single, high-value bundle, including advanced Perl programming technologies and in-depth resource information. Find out more:	• • • • • • • • • • • • • • • • • • •
ununu ActivoStato com	Display the release notes	~



1.To execute BlueToolInstall (Version:V.0.8.7.2)

Execute below BluetoolInstall

BlueToolInstall Setup Launcher Broadcom Corporation	
🔂 Broadcom BlueTool - I	InstallShield Wizard
	Welcome to the InstallShield Wizard for Broadcom BlueTool
	The InstallShield(R) Wizard will install Broadcom BlueTool on your computer. To continue, click Next.
	Copyright 2002-2005 Broadcom Corp. All rights reserved.
	Click it
	< Back Next > Cancel

Broadcom Confidential Software Not to be distributed or used without written authorization from Broadcom
Not to be distributed or used without written authorization from Broadcom
Not to be distributed or used without written authorization from Broadcom
Version 0.8.5.8
February 24, 2005
Copyright 2002-2005 Broadcom Corporation. All rights reserved.
$_{ m I}\odot$ I accept the terms in the license agreement
○ I do not accept the terms in the license agreement
InstallShield Cancel
Click it.

tall to a different folder.	
Change	
·	
	tall to a different folder. Change Next > Cancel

🔂 Broadcom BlueTool - InstallShield Wizard
Choose the setup type that best suits your needs.
Please select a setup type.
All program features will be installed. (Requires the most disk space.)
Custom Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield
Click it.

Rea T	ady to Install the Program he wizard is ready to begin installation.
If e:	you want to review or change any of your installation settings, click Back. Click Cancel to xit the wizard.
α	urrent Settings:
s	ietup Type:
	Typical
	Destination Folder:
	C:\Program Files\Broadcom\BlueTool\
	Name: King
	Company: King
Install	Shield
	< Back Install Cancel
	Click it

😰 Broadcom Blue Tool - Insta	IIShield Wizard InstallShield Wizard Completed
	The InstallShield Wizard has successfully installed Broadcom BlueTool. Click Finish to exit the wizard.
	☑ Launch the program
	< Back Einish Cancel
	Click it

2. Driver in BTWUSB

After inserting the bluetooth module, it will search driver of BTWUSB as below.





Then Select the Driver location and press "Next"

選擇您的搜尋和安裝選項。	\mathbf{P}
 ● 在這些位置中搜尋最好的驅動程式(2) 使用下列核取方塊來限制或擴充包括本機路徑和可卸除式媒體的預設搜尋,將 裝找到的最佳驅動程式。 ● 搜尋可卸除式媒體 (軟碟, CD-ROM)(M) ● 搜尋時包括這個位置(Q): D:\專案\IBM\Broadcom\Test Utility\BTWUSB ● 瀏覽(R) ● 不要搜尋,我將選擇要安裝的驅動程式(D) 選擇這個選項來從清單中選取裝置驅動程式。Windows 不保證您所選取的驅動; 式最符合您的硬體。 	安
<上一步B) 下一步M)> 取消	





	完成尋找新增硬體精霊 這個精靈安裝了軟體於:			
	Broadcom USB Bluetooth Device			
按[完成] 關閉精靈。				
	《上一步图》 完成 取消			



3.How to use Bluetool

• Open Log window







Click HCI control in Transport to launch Bluetooth Module

Select HCI control



Select USB 0





Choose 0-Vendor-specific Commands(0 key)

File Edit View Iransport Window Help				
Log Window	HCI Control: usb9			
5:44.429 usb0 Open transport faile(F HCI protocol active 0: Vendor-specific Comm	ands (O key) 🗾		
5:48.648 usb0 Open transport failed	Write BD ADDR Read Inquiry_Response_Timeout			
2:45.547 usb0 Transport opened	Write_Ing dify_Kesponse_Inneodd Read_Page_Scan_Repetition_Mode Write_Page_Scan_Repetition_Mode			
2:45.656 usb0 Protocol set to HCI	Read_Page_Response_Timeout Write_Page_Response_Timeout Read_New_Connection_Timeout Super_Peek_Poke Write_Local_Supported_Features Write_Local_Supported_Features Write_Park_Parameters Set_LED_Global_Control_2045 Force_Hold_Mode Unpark_Using_PM_ADDR Write_Hopping_Channels Sleep_Forever_Mode Set_Tx_Carrier_Frequency_2045 Set_Encryption_Key_Size Invalidate_Flash_And_Reboot Update_UART_Baud_Rate Write_GPIO_1_4_As_Output Write_GPIO_2_LED Set_Testmode_Type Write_SCO_PCM_Int_Param Read_SCO_PCM_Int_Param Read_SCO_PCM_Int_Param Write_Comfort_Noise_Param Write_Comfort_Noise_Param Write_SCO_Time_Slot Read_SCO_Time_Slot Read_SCO_Time_Slot Read_SCO_Time_Slot Read_ScO_Time_Slot Read_ScO_Time_Slot Read_ScO_Time_Slot Write_PCM_Loopback_Mode Set_Transmit_Power Set_Sleepmode_Param Sleepmode_Command Delay_Peripheral_SCO_Startup Write_Receive_Only			
	Write_Rate_Control Set_Tx_Carrier_Frequency Download_Minidriver Crystal_PPM Set_Pnuer_Amn_Bias			
	Set Ham_Behavior Set AFH_Behavior Read_BTW_Security_Key Enable_Radio			
.	Read_Diagnostic_Info Get HID_Device_List		×	
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Click Set_TX_Carrier_Frequency_2045 for Transmitter Testing



🗱 Broadcom Blue Tool

File Edit View Transport Window Help



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Click Write_Receive_Only for Receiving Testing _ B 🗙 Broadcom Blue Tool File Edit View Transport Window Help _ 🗆 🗙 📕 HCI Control: usb0 🛑 Log Window 26:44.429 usb0 -- Open transport failed FICI protocol active 0: Vendor-specific Commands (0 key) * Write_GPIO_2_LED Set_Testmode_Type Write_SCO_PCM_Int_Param Read_SCO_PCM_Int_Param 26:48.648 usb0 -- Open transport failed 22:45.547 usb0 -- Transport opened Write PCM Data Format Param Read_PCM_Data_Format_Param 22:45.656 usb0 -- Protocol set to HCI Write_Comfort_Noise_Param Read_Comfort_Noise_Param Write_SCO_Time_Slot Write_SCO_Time_Slot Write_PCM_Loopback_Mode Read_PCM_Loopback_Mode Set_Transmit_Power Set_Sleepmode_Param Read_Sleepmode_Param Sleepmode Command Delay_Peripheral_SCO_Startup Write Rate Control



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File Edit View Transport Window Help 🛑 Log Window - 🗆 🗙 HCI Control: usb0 26:44.429 usb0 -- Open transport failed F HCI protocol active 0: Vendor-specific Commands (0 key) -Write_GPIO_2_LED ~ 26:48.648 usb0 -- Open transport failed Write_STO_Z_LDD Set_Testmode_Type Write_SCO_PCM_Int_Param Read_SCO_PCM_Int_Param Write_PCM_Data_Format_Param Read_PCM_Data_Format_Param 22:45.547 usb0 -- Transport opened 22:45.656 usb0 -- Protocol set to HCI Write Comfort Noise Param Read Comfort Noise Param Write_SCO_Time_Slot Read_SCO_Time_Slot Write_PCM_Loopback_Mode Read_PCM_Loopback_Mode Select Frequency Set_Transmit_Power Set_Sleepmode_Param Read Sleepmode Param Sleepmode Command Delay_Peripheral_SCO_Startup Write Rate Control KICI Command: Write_Receive_Only (usb0) Set_Tx_Carrier_Frequency Download_Minidriver Crystal_PPM Receive_Frequency (2402-2480; MHz): 2402 0x962 OK Set_Power_Amp_Bias Set_Ham_Behavior Cancel Set_AFH_Behavior Read_BTW_Security_Key Enable_Radio Read_Diagnostic_Info Get_HID_Device_List Add HID Device Read_Config_And_App_FW_Version Delete_HID_Device Enable_TCA Enable_USB_HID_Emulation Enable USB HID_Emulation Write_RF_Reprogramming_Table Automatic_Paring_Requested Read_VS_Extension Write_VS_Extension Read_Collaboration_Mode Write_Collaboration_Mode Write_New_Power_Amp_Biases Write_RF_Attenuation_Table Configure_Sleep_Mode Read_Raw_RSSI IOP_Test_Tx IOP_Test_Rx Write RAM Read_RAM Launch RAM Set_Link_Quality_Threshold > 🏄 開始 💏 Нуре. 😛 Yaho. ➡ 控制 IBM IBM 🛄 装置 - 尋找. - 輸入開鍵字 🔽 🔹 CE 🌏 🖉 强 🖓 💻 🚷 下午 04.25 🖹 Broa BUDB

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