

Ping-Shou Cheng^a, Shi-Hong Lin^a, Yun-Ning Su^a, Shi-Wei Wang^a, Tzung-Fu Tsai^{b*}

^a

^b

*

: , conan629@hotmail.com

[7]

2.4GHz ISM

[4]

2.1

Bluetooth

Bluetooth

Bluetooth

Project

[9]

[6]

[3]

[1]

ISM

2.4GHz

1MHz

2.4GHz

90

79

[11]

10

0dBm

100

20dBm

1600

ACL

723.2kbps

57.6kbps

433.9kbps

SCO

64kbps

[8]

2.3

Framework
 TCP/IP HID RFCOMM
 RFCOMM GSM TS0710
 Baseband

7

Baseband Link Manager Link

Scatternet Figure 1

Page

SDP

[4]

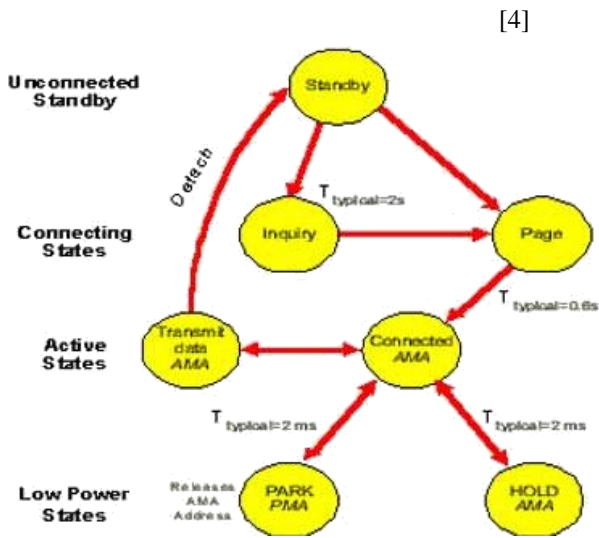


Figure 1 Bluetooth Functional Overview[4]

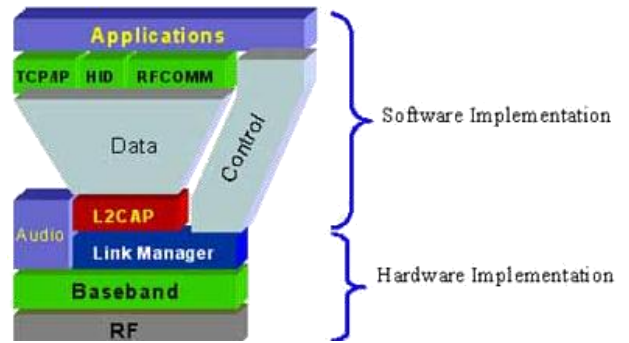


Figure 2 Bluetooth Protocol Stack (SIG Version)[4]

2.5

PDA

3C

3C

1MB[6]

2.4

Figure 2

[5]

L2CAP Radio HCI Application Framework
 Baseband Link Manager L2CAP

PDA

Radio

PDA

HCI Bluetooth Host

Application

[2]

Anoto

[6]

3

3.1

Figure 3 Figure 4



Figure 3

1



Figure 4

2

3.1.1

Figure 5



Figure 5

3.1.2

Figure 6



Figure 6

3.1.3

Figure 7



Figure 7

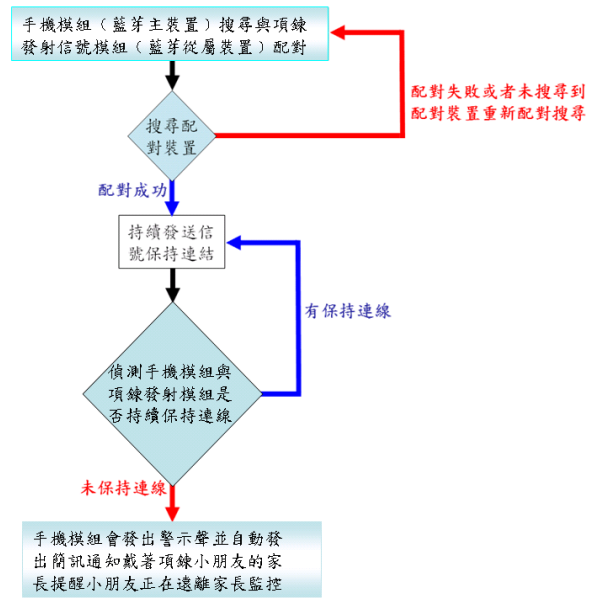


Figure 8

1

Figure9

3.2

Figure8

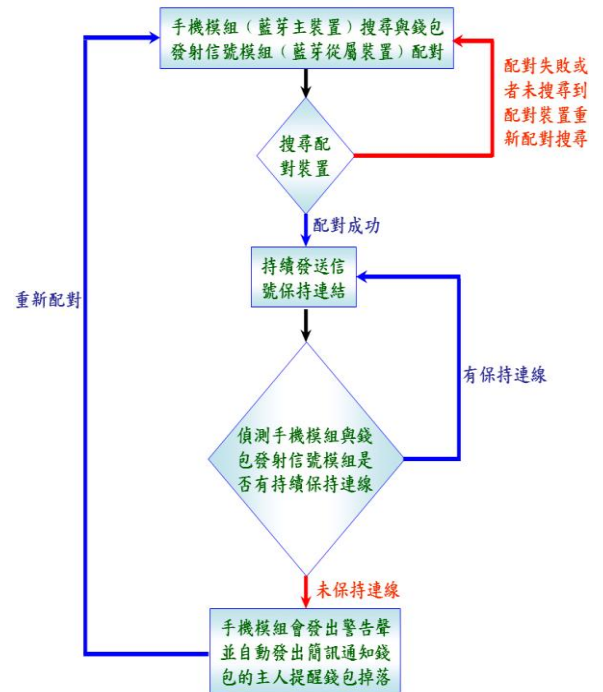


Figure9

2

3.3

[10] <http://goods.ruten.com.tw/item/show?11081002525151>

4

- [1] <http://www.epochtimes.com/b5/9/3/12/n2460410.htm>
- [2] <http://www.wi-fi.com.tw/info/index.html>
- [3] <http://www.ttv.com.tw/098/03/0980312/09803129031201I.htm>
- [4] <http://www.iii.org.tw/ncl/document/bluetooth.html>
- [5] http://www.st-pioneer.org.tw/modules.php?name=St_Dictionary&pa=showdata&tid=31
- [6] http://enews.tpc.edu.tw/document/information/2001/%A5_%B7s%B0%EA%A4p%C5U%B8%DB%A1u%C2%C5%AA%DE%A1v.htm
- [7] <http://www.shs.edu.tw/works/essay/2006/10/2006103116332741.pdf>
- [8] <http://www4.tcgs.tc.edu.tw/lib/network/living.htm>
- [9] <http://zh.wikipedia.org/w/index.php?title=>