

# Phonelabs Bluetooth Module

## User Manual



### Mechanical

1. The module fit within the existing Phonelabs Bluetooth dongle plastics.
2. The module have a 15 way PCMCIA connector.

### Power Supply Subsystem Requirements

1. The module operates from 3.3V  $\pm$ 5%.
2. The module consume less than 40mA during audio transfer.

### Environmental

1. The operating temperature specification for the module be  $-0^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$
2. The storage temperature range for the module be  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

### Bluetooth Subsystem

1. The Bluetooth subsystem be based on the Cambridge Silicon Radio BC04 chipset.
2. The module has a minimum receive sensitivity of  $-84\text{dBm}$  including the antenna gain.
3. The module has an on-board  $+2.65\text{dBi}$  antenna.
4. The module has a maximum transmit power of  $+6\text{dBm}$  including the antenna gain.
5. The module range exceeds 30 ft (free space) whilst meeting the audio performance requirements.

**NOTE:** The maximum effective range of the Bluetooth Module is 30 ft and can be less depending on the levels of competing radio frequency interference.

Bluetooth devices transmit and receive in the 2.4Ghz frequency spectrum. There can be interference issues with using a Bluetooth device in the same area as 2.4Ghz cordless phones and WiFi 802.11b & 802.11g, which also operate on the 2.4Ghz frequency. Since 2.4Ghz cordless phones and WiFi 802.11b/g use high power signals in the same 2.4Ghz frequency, they can interfere with lower power devices such as bluetooth.

## Award Winning and #1 Rated Dock-N-Talk™

The Dock-N-Talk can also be used with bluetooth equipped cell phones. The PhoneLabs Bluetooth Module allows a wireless bluetooth connection to your cell phone without the need to connect with a cable.

Any time you walk into to your home or office your cell phone will be automatically connected to the Dock-N-Talk and instantly ready to make or receive calls using your wireless service. When you leave, the Bluetooth Module will automatically disconnect.



### **Docking the Cell Phone Using the Bluetooth Module**

If your cell phone is bluetooth enabled, you may connect to the Dock-N-Talk using a Phone Labs Bluetooth Module. To connect your cell phone using the Bluetooth Module, you will need to turn on the bluetooth feature on your cell phone. Be sure that your cell phone is turned on. Then connect the Bluetooth Module to the connector on the right side of the Dock-N-Talk. Press the Bluetooth Pairing button

on the right top side of the Dock-N-Talk. Your cell phone should now show you the Dock-N-Talk and ask you if you want to connect. Your cell phone may also require you to enter a password (which is **3774**). Once the wireless bluetooth connection has been made, you will see the LED turn from flashing green to solid green color on the Dock-N-Talk and the blue LED on the Bluetooth Module should be illuminated. Confirm that the proper connection has been made. Cell Phone Bluetooth Module Connector

### **Bluetooth Pairing Key**

Bluetooth devices must be paired before they can communicate. Normally, pairing needs to only be performed once. By pressing the Bluetooth Pairing key for at least two seconds, the Dock-N-Talk will enter into a search mode where it is expecting to receive communication from a bluetooth enabled cellular handset. After the Dock-N-Talk Bluetooth pairing key is pressed, the green LED starts to flash rapidly indicating it is in SEARCH Mode. The user must then initiate bluetooth pairing from the cell phone. The cell phone will prompt the user to enter a password or pass key. **The default password is 3774.** Once the Dock-N-Talk and cell phone establish a Bluetooth connection, the LED turns solid green to indicate connection to the cell phone. Bluetooth operation requires the Phone Labs Bluetooth Module for functionality. The Bluetooth Module has a similar function to the cable and plugs into the same connector slot on the Dock-N-Talk.

**NOTE:** For best results when using other 2.4Ghz devices, keep those devices as far away as possible from the Dock-N-Talk and cellphone.

## Enterprise™ Telephone



### Pair Bluetooth

Use this option to pair to your bluetooth enabled cell phone with the Enterprise phone. First you must connect your Bluetooth Module to the Enterprise. You will know if it is properly connected to the Enterprise phone when the display screen says "Module In" and it has a blue flashing light. From the Menu, Press the number 2 key on your Dial Pad or highlight this option using the Up, Down arrows and select the "Choose" Soft Key Button. The LCD screen will discover bluetooth devices. When prompted for a password, enter **3774** on your cell phone dial pad.

**NOTE:** The Bluetooth Module should only need to be paired once to your cell phone unless you change bluetooth cell phones and subsequently pair another cell phone.

Once the cell phone is paired to the Bluetooth Module, the blue LED on the Bluetooth Module will turn from a flashing blue state to a steady blue state and the Enterprise phone will light its blue LED located under the LCD screen and you will hear an audible beep. A Soft Key label, BT Off, will appear on the lower left Soft Key. When this Soft Key is pressed, the Bluetooth Module will manually disconnect from the cell phone and a new Soft Key will appear, BT On. Pressing this Soft Key will re-establish the bluetooth connection. These Soft Keys may also be pressed during a call to switch the call back and forth between the cell phone handset and

the Enterprise. If you remove the Bluetooth Module, the blue light on the Enterprise will turn off and the LCD screen will read "Module Out" and you will hear an audible beep.

**NOTE:** The Bluetooth Module will automatically connect and disconnect when you move the cell phone in and out of the bluetooth range of approximately 30 feet. If you manually disconnect, the automatic connect feature will not work until the connection is manually re-established.

### **FCC INFORMATION**

This device complies with Part 15 of the FCC 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.

The 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 instruction, may cause harmful interference to radio communication. However, there is no grantee 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 or more 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.

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter.

## Cell Phone Compatibility ▾

### Cell Models with Bluetooth and Cable or Bluetooth Only\*

## NOKIA

2365i, 2865i, 3230, 3250, 3600, 3620, 3650, 3660, 5500 Sport, 6021, 6102i, 6103, 6111, 6125, 6126, 6131, 6175i, 6230, 6230i, 6233, 6255, 6255i, 6256i, 6260, 6265i, 6270, 6280, 6310, 6310i, 6600, 6620, 6630, 6650, 6670, 6680, 6681, 6682, 6708, 6810, 6820, 6822, 7280, 7370, 7380, 7600, 7610, 7650, 7700, 7710, 8800, 8801, 8910, 8910i, 9300, 9300i, 9500, E50, E60, E61, E70, N60, N61, N70, N71, N72, N73, N80, N90, N91, N92, N93, N-Gage, N-Gage QD



T280i, A630, A760, A732, A780, A830, A835, A845, A920, A925, A1000, A1010m, A1200, C698p, C975, E390, E550, E398, E680, E680i, E770v, E815, E816, E895, E1000, E1070, V80, v195, V330, V360, V360v, V365, V500, V501, V505, V525, V540, V545, V550, V551, V555, V557, V600, V620, V635, V710, V980, KRZR K1, KRZR K1m, L2, L6, L7, MPx, MPX220, PEBL V6, Q, RAZR maxx, RAZR V3, RAZR V3c, RAZR V3i, RAZR V3m, RAZR V3x, RAZR V3xx, RIZR, ROKR E1, ROKR E2, SLVR, SLVR L7c  
Motorola-Nextel(IDEN) i605, i870



D750i, K510a, K510c, K510i, K600, K600i, K608i, K610c, K610i, K700c, K700i, K750, K750c, K750i, K758c, K790a, K790c, K790i, K800c, K800i, M600, M600c, M600i, M608, M608c, P908, P910a, P910c, P910i, P990, P990c, P990i, R310s, R310sc, R320, S600i, S700, S700c, S700i, S710a, T608, T610, T610 NZ, T616, T618, T628, T630, T637, V600i, V630, V630i, V800, W300c, W300i, W550c, W550i, W600a, W600c, W600i, W700, W700c, W710, W710c, W710i, W800, W800c, W800i, W810, W810c, W810i, W850, W850i, W900c, W900i, W950, W950c, W950i, Z520a, Z520c, Z520i, Z525a, Z525i, Z530c, Z530i, Z550c, Z550i, Z600, Z608, Z710a, Z710i, Z710c, Z800, Z800i, Z1010, Vodafone 802SE



AX-245, AX490, CG300, CU320, F2400, F3000, KG245, KG800, LP3900, LX350, LX550 FUSIC, M4300, M4410, M6100, P7200, PM325, S5100, S5200, U880, U8150, U8200, U8210, U8290, U8360, U8380, TM910, V9000, VX5300, VX8100, VX8300, VX8500 Chocolate, VX9000B, VX9800



650 Sprint, 650 Cingular, 650 unlocked GSM phone, 700p, 700w



7100g, 7100i, 7100r, 7100t, 7100v, 7100x, 7105t, 7130c, 7130e, 7130g, 7130v, 7250, 7290, 7520, 8700c, 8700f, 8700g, 8700r, 8700v, 8707v

## BENQ-SIEMENS

AP75, Blackberry, C81, CF61, CL71, CX75, EF51, EF81, EF91, EL71, M75, M315, M580, P50, P51, S55, S56, S65, S66, S68, S75, S80, S81, S88, SFG75, SK65, SL75, SL75 Escada, SP65, SX1, SX66, SXG75, U10, U15



A640, A870, A900, A920, A930, A940, A950, A970, A990, D307, D357, D407, D500, D500, D520, D510, D600, D720, D730, D800, D807, D820, D840, D900, E340, E370, E380, E530, E620, E640, E720, E730, E750, E760, E770, E780, E870, E880, E900, I300, I320, I730, I750, K790, K800, P200, P300, P850, P860, S401i, S410, S501i, t509, t609, t809, V740, V6900, X500, X640, X680, X700, X800, X820, Z130, Z140, Z150, Z300, Z500, Z510, Z540, ZV40, ZX20

# SHARP

GX15, GX-A15, GX-E15, GX-L15, GX-T15, GX-U15, GX17, GX25,  
GX25-Ferrari, GX30i, GX-200, GZ1, GZ100, GZ200, SX813, TM200, 802SH, 902, 902 Ferrari, 903V,  
HipTop 3/Sidekick 3

# SANYO

S750, S760, 6600, 8400

# VK Mobile

VK1500, VK2010, VK2020, VK2200, VK3100, VK4000, VK4100, VK4500, VK5000, VK7000

# Sagem

my301X, my700X, my900C, myV-85, myW-7, myV-76, myX6-2, myx-7, myX-8

# cingular<sup>sm</sup>

2125, 8125

# UTStarcom AUDIOVOX COMMUNICATIONS

SMT 5600, PPC-6600, PPC-6601, XV6600(camera/no camera), XV6700

# HP

Ipaq 6315, Ipaq hw6500, Ipaq hw6510b, Ipaq hw6515b

# T-Mobile

MDA, MDA III, MDA Compact, SDA, SDA Music

# Orange

SP3, SPV c500, SPV M2000, I-Mate SP3, I-Mate PDA 2000, MDA III

# O2

Xda IIs, Xda III

# Qtek

Qtek 2020, 2020I, 8010, 8020, 8080, 8100, 8300, 8310, 8500, 9000, 9090, 9100, G100, S100, S110,  
S200

# Panasonic

MX7, SA7, VS6, VS7, X11, X70, X88, X700, X710

# NEC

e540, e545, E606, N411i

# Philips

Fisio 20, Fisio 820, Fisio 825, 520, 820

# Sendo

X

# Toshiba

921

# KYOCERA

K320, K322, K323, K342, K822, KX5 (Slider Remix), KX160, Xcursion

\* Models in blue lettering are Bluetooth Only, no cable support is available at this time.