

Connecting MMCE and FAST Survey to Z-Max via Bluetooth

31 May 2007

Step 1: Add a Shortcut to the Bluetooth Manager on the Desktop

A. Double-tap My Computer on the MMCE Desktop



B. Double-tap the **Windows** folder





C. Tap **BthManager** once to highlight it



D. Tap **File > Send To > Desktop as Shortcut**



If you do not see the word "File" in the menu bar, tap the File icon in the upper left.

E. Tap **X** in the upper right corner to return to the Desktop.



Step 2: Connect the MMCE and Z-Max with Bluetooth

A. Double-tap the Shortcut to BthManager and wait ~15 seconds for it to load



When the Bluetooth Manager is ready, you will see the following screen

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B. Tap the icon of a green picture frame with a red checkmark

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C. Make sure the **Properties > Security** tab looks like this:

Properties OK ×
General Security Options
Authentification :
Enabled
Let other devices discover :
Yes
Default PIN :
12345
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D. Tap the **Options** tab and check both "Auto Client COM Port" and "Auto Server COM Port"



- E. Tap OK to close the **Properties** dialog
- F. Turn on the Z-Max and tap the Bluetooth Manager's **Search** icon (a yellow flashlight)

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G. The bottom status line will display "Searching"

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When it says "Ready," your Z-Max receiver should be listed in the main field

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Note: You won't be able to see enough of the Z-Max serial number to distinguish it from any other Z-Max that may be turned on and within Bluetooth range. You can tap-and-hold on any displayed receiver and select **Properties** to see the full serial number.



H. Now double-tap the Z-Max icon. After two seconds the status screen will show the full serial number and display a **Serial Port (Chan 1)** icon. This is the channel opened by the MMCE's internal Bluetooth radio.

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I. Double-tap the **Serial Port (Chan 1)** icon and a green electric plug will appear over the icon indicating that the opened radio channel has connected with one of the MMCE's comm. ports. A notification box will describe the MMCE COM port number connected to this Bluetooth radio channel. In this example, the MMCE's COM4 port is talking with the Z-Max on Bluetooth Channel 1.

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IMPORTANT: Make a note of the MMCE COM port number displayed on this dialog box (in this example, COM4). Then tap **OK** to close the notification box.



J. Tap-and-hold on the Serial Port icon and tap **Create Shortcut**



K. Tap **X** to minimize the Bluetooth Manager down to the system tray. (This does not close the Bluetooth Manager.)





L. Run FAST Survey by double-tapping on the hard hat icon on the MMCE Desktop



M. Select a new job, select a name and configure the job





N. Although data from the Z-Max is coming into the MMCE's COM4 port along Bluetooth Channel 1 (in this example), this data must now be directed to FAST Survey. Tap the **Equin** tab and tap Option 8 (**Comm Setup**)

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4 Receiver Utilities		9 Peripherals		
5 Localizati	on	0 About FAST Survey		
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- O. On the **Comm Setup** screen:
 - a. Set the Port Number to the same COM port number you noted in Step 2.I above
 - b. Check the **This is a Bluetooth port** checkbox
 - c. Set the **Bluetooth Driver** field to **Other**
 - d. Tap **OK** on the **Comm Setup** screen

Comm Setup	
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Parity:	None 🔻
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P. FAST Survey will connect to the Z-Max data streaming in on the MMCE's COM4 port and return a confirmation message:



Tap **OK** and use FAST Survey normally.

Q. If you move the MMCE beyond Bluetooth range of the Z-Max, the Bluetooth Manager will automatically reconnect you to the receiver when move back within range.

If you stay out-of-range too long, the following message will be displayed:





R. Tap (**once**) on the Bluetooth icon on the Status line and tap **Show** to maximize the Bluetooth Manager



S. Acknowledge the "Error" by tapping **OK**

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Typically, the Bluetooth Manager will automatically reconnect. If it does not, tap the yellow star icon, then double-tap the previously saved **Serial Port** icon.



Step 3: Reconnecting the next time

A. Double-tap "Shortcut to BthManager" and wait for Bluetooth Manager to load



B. Tap the **Favorites** icon (the yellow star)

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C. The connection to the original Z-Max that you saved earlier will be displayed. Double-tap the **Serial Port on COM X** icon to connect the MMCE to this Z-Max receiver via the same Bluetooth channel.

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D. You will see a confirmation message. Tap **OK** to close the message and tap **X** to minimize the Bluetooth Manager to the task bar.

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- E. If you do not see this confirmation message, tap the Bluetooth Manager's yellow flashlight **Search** icon, i.e., return to Step 2.F.
- F. Run FAST Survey and use normally.