Using the Zephyr Xport with a cellular handset

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The Aux Audio Interface

For maximum flexibility, your Zephyr Xport can be used as a mixer to establish connections through a cellular telephone (handset). The audio quality will be dependant on the type of cellular system used, and will be the comparable to any other cellular call using the system in question.

The majority of cellular phones include a connector intended for use with an external headset. Typically the headset connection uses a 3 conductor 3/32" (2.4 mm) “sub-mini phone plug” connector. Typically, the headset's microphone connects to the “tip” connection and the earpiece connects to the “ring” connection, with the sleeve acting as common. We'll refer to this configuration as the “standard 3-conductor sub-mini connector”.

Adaptors to this standard 3-conductor sub-mini format are available for most phones that do not include this connector. These are readily available from numerous vendors. A few such vendors are listed at the end of this bulletin, or use your favorite search engine to search headset+“cellular adaptor”.

Connecting the Cell Phone to the Xport

If your cellular handset uses the standard 3-conducter sub-mini connector, you will need a 1/4" tip-ring-sleeve plug to 3/32" tip-ring-sleeve plug cable wired straight through pin-for-pin. You can purchase this cable, through your Telos dealer (**Telos part # 2091-00034-000**), another supplier, or build it yourself.

> Note: You could use a 1/4" 3-conductor to 1/8” 3-conductor cable together with a 1/8" to 3/32" adaptor. This adaptor is available from Radio Shack (www.radioshack.com), BTX (www.btx.com), and other vendors.

Once you have made this connection, you would place a telephone call with the handset's dial pad using the usual procedure.

The volume control on your cellular telephone will determine the level of the received audio.

You will need to check with the far end as to the level of your audio, and adjust your levels accordingly. The Xport’s send meter will provide some guidance, however the correct meter levels required will vary depending on your cellular telephone.

Some sources for adapters that convert various cell phones to the “standard 3-conductor sub-mini connector” are listed below (no endorsement implied).

www.accessories4sale.com
http://www.rf3.com.au/pages/adapter.html
http://www.cellular-headset.net/parts.html
http://www.communitech.com/products/cellular_adapter_comparison.asp
http://www.cellularaccessory.com/audioadapter.html
http://www.keysan.com/ksu4674.htm
http://www.1800mobiles.com/sepad.html

If you prefer to make your own adaptor, the following sites may be of assistance:
http://www.hardwarebook.net/connector/
http://wired.hard.ru/english/diff-cell.shtml
http://www.technick.net/