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# APPLICATION NOTE

SuperAppNote #SA201602A

## Using Super Antenna MP1R SuperWhip for Ruggedized Operation with Backpacks

Insert a single provided ER1 Extension Rod Through the top hydration tube slot or zipper opening at the top of the backpack.

Secure the rod to the top handle of the backpack. This is the spot where the most force will be encountered while in motion, so make this attachment as secure and strong as possible.

Secure the rod with cinch straps, cord, cable ties, or duck tape. 2 Extension Rods are supplied in the package. But, for most ruggedized applications, a single ER1 Extension Rod is optimum, and sufficient for HF operation.

Place the UM1 or UM2 SuperMount inside the backpack, and screw the bottom of the ER1 Extension Rod into the mount fitting. With a screwdriver or tool, loosen the swivel mount angle screws and adjust the angle to provide a good footing for the mount plate inside the pack.

Soft items such as clothing may be placed around the mount with heavier items surrounding it, to hold the mount in place in the pack.

For packs with side MOLLE-PALS straps

Tie the top of the rod to the point where the shoulder strap cinch strap meets the top of the pack.

The rod and mount may be slotted through the side straps.

Attach coaxial cable to mount and radio.

Attach drag wire counterpoise to the mount connection.

Draw out a single wire of the counterpoise and let it dangle. Use the shortest wire for higher frequencies.

Roll the remaining counterpoise wires up, and stow them in a pocket of the pack.



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