FIBERDYNE LABS
Fiber Optic
Networking Products

Application Note

Using Muxkits and Converter-Muxs

<u>Keywords</u>

Application, Ethernet, Multiplex, Media Converter

<u>Summary</u>

The Muxkits (and the Converter-Muxs) can be used anywhere, just like media converters or repeaters. They are used where only a single fiber is available for a link, or where trunking is available for increased bandwidth.

<u>Scenario</u>

Customer has only a simplex fiber between locations, or customer wants to transfer more data with the available multiple-fiber cable.

<u>Question</u>

How would one use a Muxkit or a Converter-Mux?

<u>Notes/Answer</u>

Place any combination of Ethernet equipment at each end of the link. Example configuations are shown at the right.

For existing duplex fiber, one may double the link bandwidth by "trunking" two ports from an appropriate Ethernet switch, such as those offered by Fiberdyne Labs.

The Muxkits can be used as standalone, as rack-mount, or as a combination of the two. In fact, customers may prefer the rack-mount, at their central location, and standalones, at the remote sites.

Remember: the link distance can be as long as 40 kilometers (km).

Warning: For links shorter than 5 km, you must use a 3 dB attenuator, to prevent equipment damage.

Note: one Converter-Mux unit replaces one converter and one mux cable assembly.
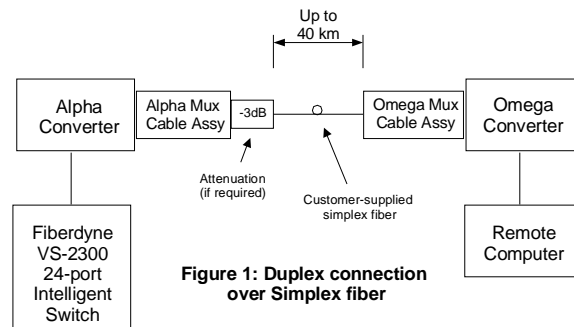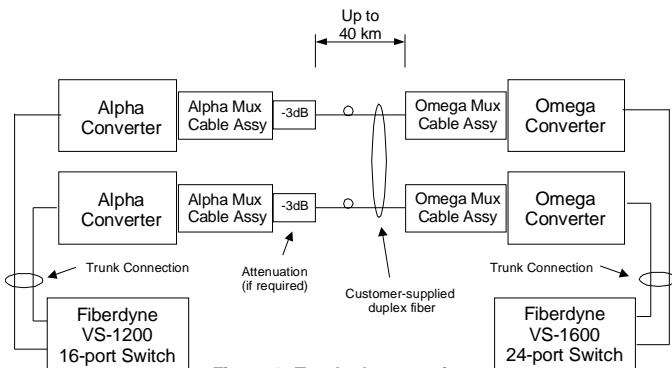

Figure 1: Duplex connection over Simplex fiber

Figure 2: Trunked connection over Duplex fiber