



DigiLinX™ Application Note

Using Fiber in Place of Copper for DigiLinX Installations

As an IP-Based A/V distribution system, DigiLinX is not dependent on a particular physical medium for the network. Many commercial integrators often want to use existing fiber that maybe in a facility and avoid having to pull new cables. This use of fiber instead of copper is completely acceptable.

We have done limited testing of audio distribution and MotionXT compressed video over fiber using 10/100 connections with no issues identified. Our test setup used standard switches and media converters from Versitron. There are other vendors of media converters, however we have not tested any other vendors.

We used the Versitron M7273S Ethernet to Fiber media converter which convert a 10/100 ethernet signal to two Multi-mode fibers, each terminated with ST-type ends in our testing. We tested with short runs of fiber, although the Versitron website indicates this unit will support distances of up to 2km (about 6,500ft).

From a practical perspective, we recommend the M7424S for most applications since it accepts the more common SC Duplex plug. The Duplex plug looks similar to fiber connections you sometimes see on switches.

Please keep in mind that for each link you will require **2** converters, one on the switch side and the other on the device side. The 2 converters must be the same on either side; fiber converters from different manufacturers are *not* necessarily compatible.

As an example, for connecting a ViewLinX you would see the following:



Versitron also have numerous gigabit media converters. We have NOT tested these gigabit converters to date. If your project requires gigabit fiber connections please contact your *NetStreams* sales representative.

More information on Versitron can be found here.

http://www.versitron.com/ethernet_fast_ethernet_converter.html

Visit www.netstreamsforums.com for DigiLinX Application Notes

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