

University of Florida

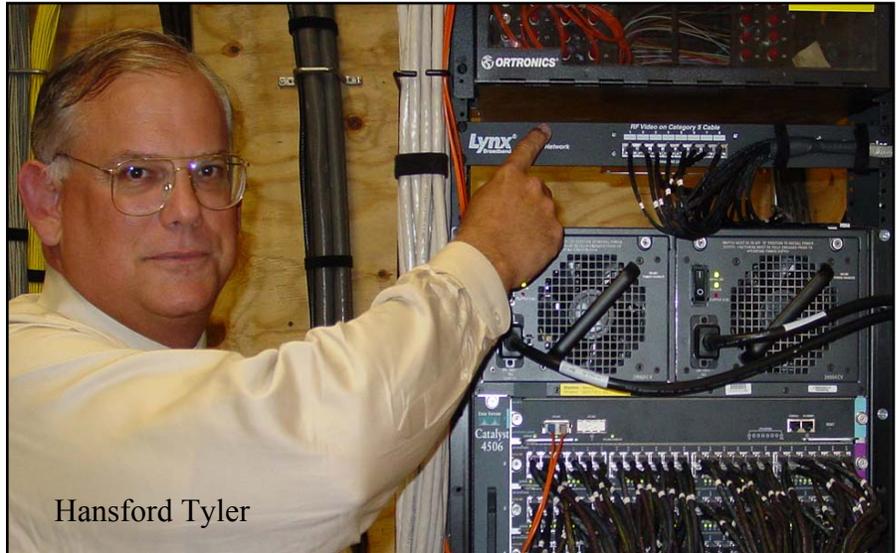
Health Sciences Center Delivers Television On Twisted Pair Cable

The Health Sciences Center (HSC) at the University of Florida uses a Lynx Video Network® to deliver its 22-channel cable TV network to 13 offices and classrooms in three buildings on twisted-pair cable. Recently, HSC expanded the network to 80 more locations with the opening of the new Health Professions, Nursing and Pharmacy Building.

Users enjoy an excellent picture, even on runs as long as 330 feet, according to Hansford Tyler, HSC's Business Manager for Academic Information Systems and Support

Tyler was intrigued with a Lynx demonstration at a trade show and ordered a system for evaluation. "It looked like a clever way to serve our customers without installing additional cable," he said. "We get the cable signal to our main data distribution closets and from there we use exactly the same system as we use for data distribution. Cable television, telephone and data are all distributed from the same IDF wiring closets and all go out on Cat 5e cables."

The centerpiece of the Lynx Network is a passive broadband balun, which converts an unbalanced coaxial signal into a balanced signal that travels on pair 4 of a twisted pair cable. An identical balun at the TV end reverses the process. The analog signal does not travel on the data



Hansford Tyler

network and does not use any bandwidth or slow down the network.

"We knew up front that classrooms in a new building would need cable television," Tyler said, "so we designed a cable plan that did not include coax. Using Cat 5 for voice, video, and data let us provide cable TV at very little additional cost. We pulled coax to the IDF closets, plugged it into the Lynx

hubs, then distributed on Cat 5."

The Lynx network uses 10, eight-port hubs, which HSC staff installed themselves. Tyler reports that Lynx Broadband was very helpful in providing installation information and technical specifications. "The quality control documentation they provided was incredible," he said.

A key consideration in HSC's decision to expand the Lynx Network was the product's flexibility for handling moves, adds, and changes. Tyler simply runs a patch cord from an unused port on a distribution hub to the appropriate port on a patch panel, then installs a single port converter behind the TV.



**For more information visit
www.lynxbroadband.com
or e-mail to
info@lynxbroadband.com**

Product Photos

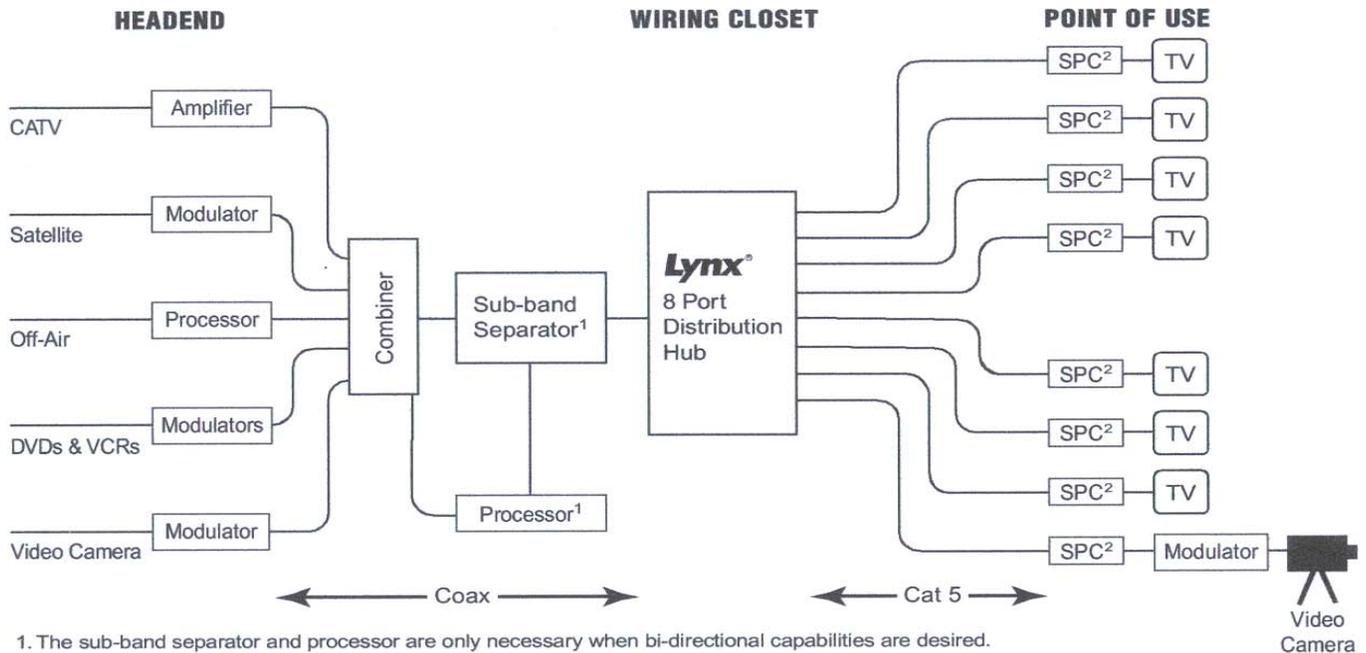


Lynx 8-port distribution hub converts a coaxial input signal to 8 Cat 5 output signals.



Lynx single port converter changes the Cat 5 signal back to a coaxial signal. (3.3 in. long)

System Design



R&D 100 Awards

The Lynx Video Network received the 1996 R&D 100 Award for its ability to deliver television signals on a dedicated twisted pair cable. The Lynx Video and Data Network received the 2003 R&D 100 Award for its ability to simultaneously deliver television and data (Ethernet) on a single twisted pair cable. The R&D 100 Award is presented by *R&D Magazine* to recognize the 100 most technologically significant new products introduced each year.

