

Industry Overview

Healthcare



OEM Medical Devices

L-com has worked with some of the leading medical device manufacturers in the US and abroad to develop cutting edge solutions for saving lives around the world. For medical device OEMs L-com offers both off the shelf as well as custom connectivity products to meet specific design requirements and stringent government safety regulations. Products include USB cables and adapters, Audio/Video products including HDMI, VGA, DisplayPort cables and adapters, D-Subminiature cables and adapters for RS232 /485 serial connectivity. With proven OEM experience and product design excellence L-com provides solutions to address just about every medical device connectivity requirement.

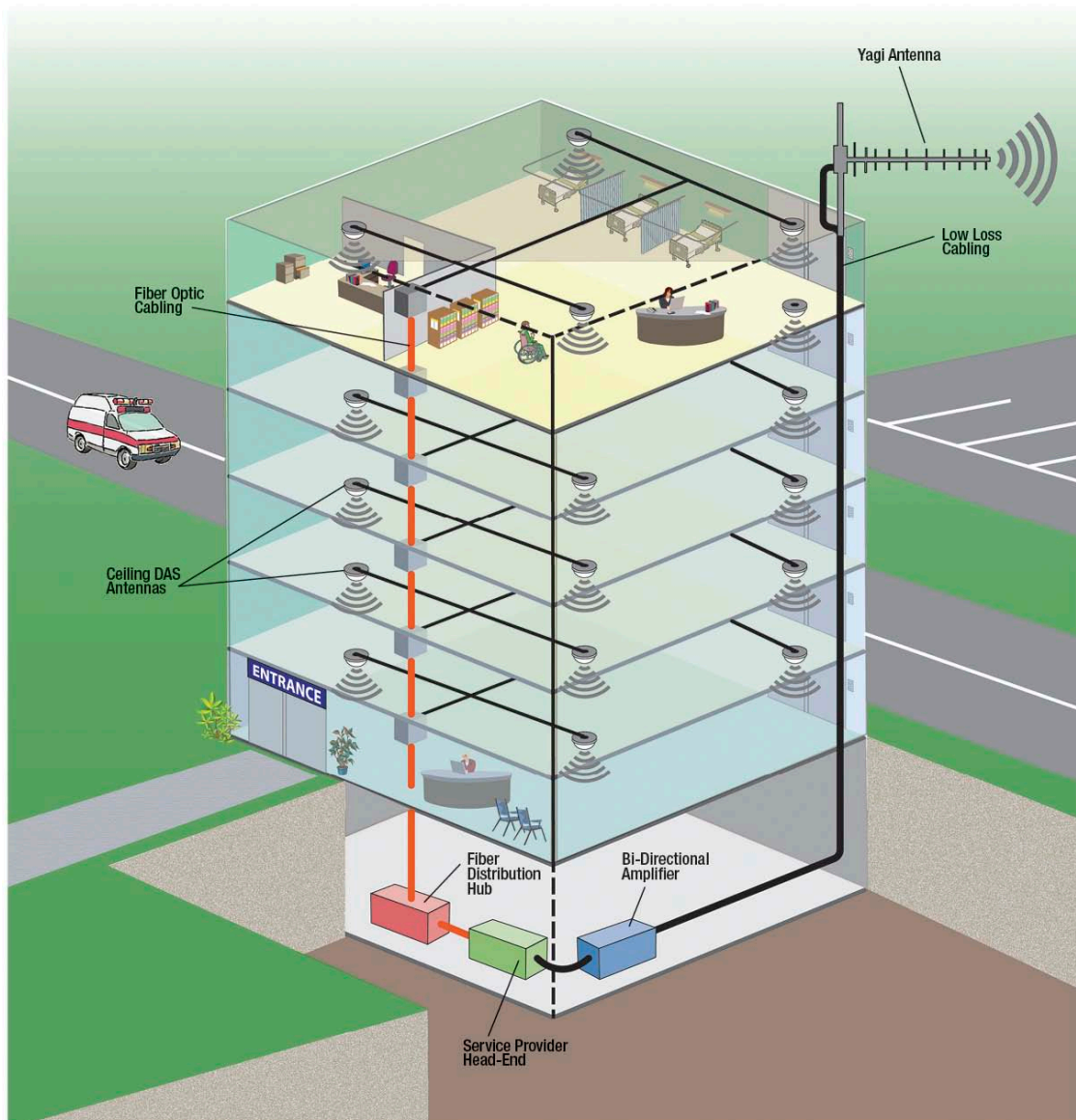
One of L-com's medical device customers, Zoll Medical, came to L-com with a design requirement for a specialized USB cable that was able to fit into a confined connection point on their new Propaq® Defibrillator. The cable also required a special over mold on the female end to prevent operator shock and required specialized material composition and hardness to stand up to rugged field use. L-com was able to design and manufacture a purpose-built right angle male to female USB cable meeting Zoll's specific requirements. This is just one example of how L-com can provide connectivity solutions to address today's medical device requirements.



In-Building Wireless Networks

L-com offers wireless networking products to address in-building communications networks for hospitals and other medical facilities. Our broad range of HyperLink® brand DAS antennas, access points and RF amplifiers provide seamless cellular and WiFi coverage for nurses, doctors, patients and visitors. L-com's wireless network solutions also address emergency communications frequency bands including the 4.9 GHz band for public safety applications as well as cellular and 2.4 GHz and 5.8 GHz WiFi network bands.

In the application diagram below L-com's DAS ceiling antennas are connected via low loss coaxial cable to fiber distribution units and then to the data center providing the hospital with broadband wireless access for both cellular and WiFi devices.

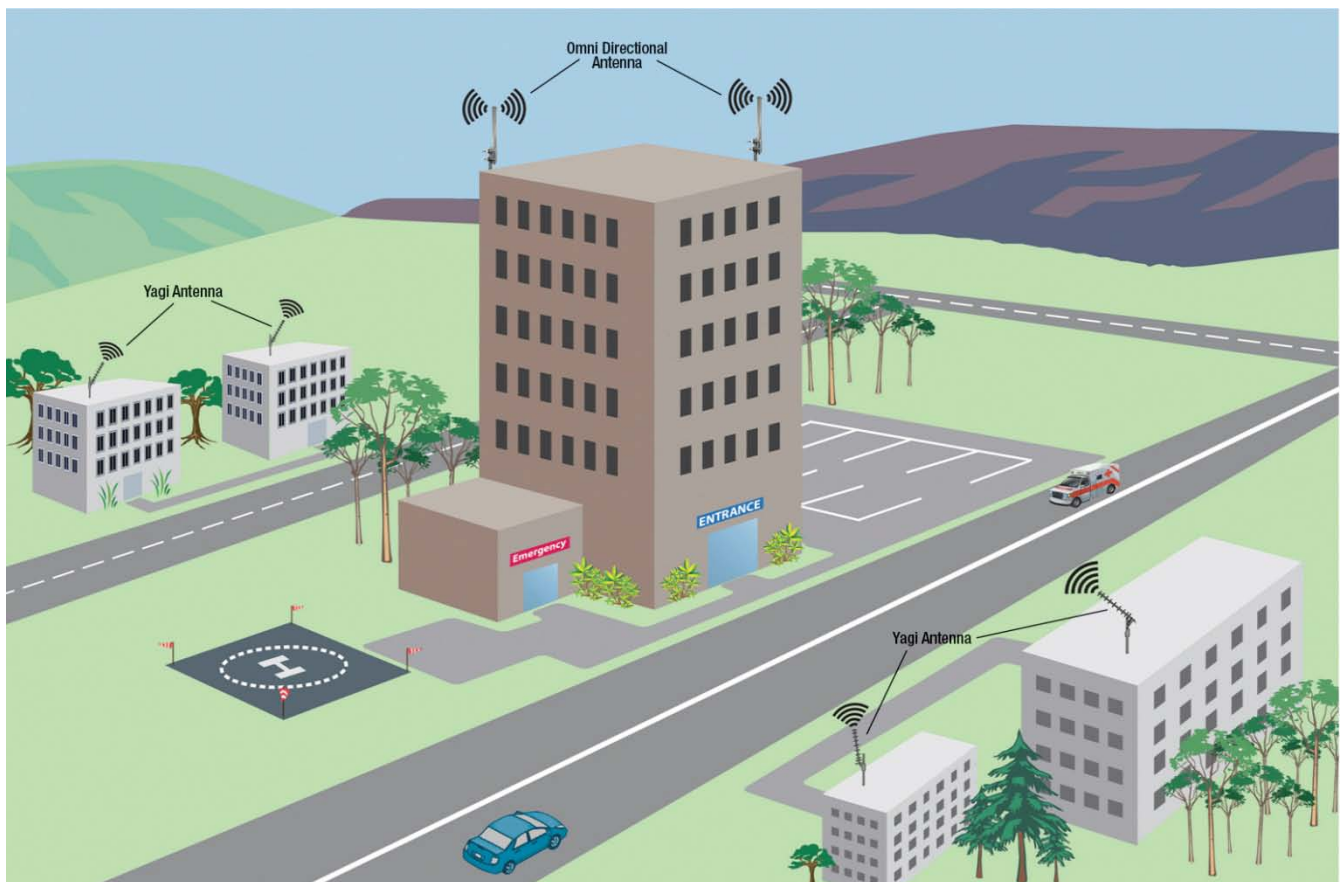


Medical Campus Networks

Many of today's medical facilities include installations where several separate buildings are included in a campus environment. In order to share critical information such as patient records, MRI scans and X-rays between buildings, a high speed communications network is required. In addition to IP voice and data, campus security networks are also supported by these inter-building networks.

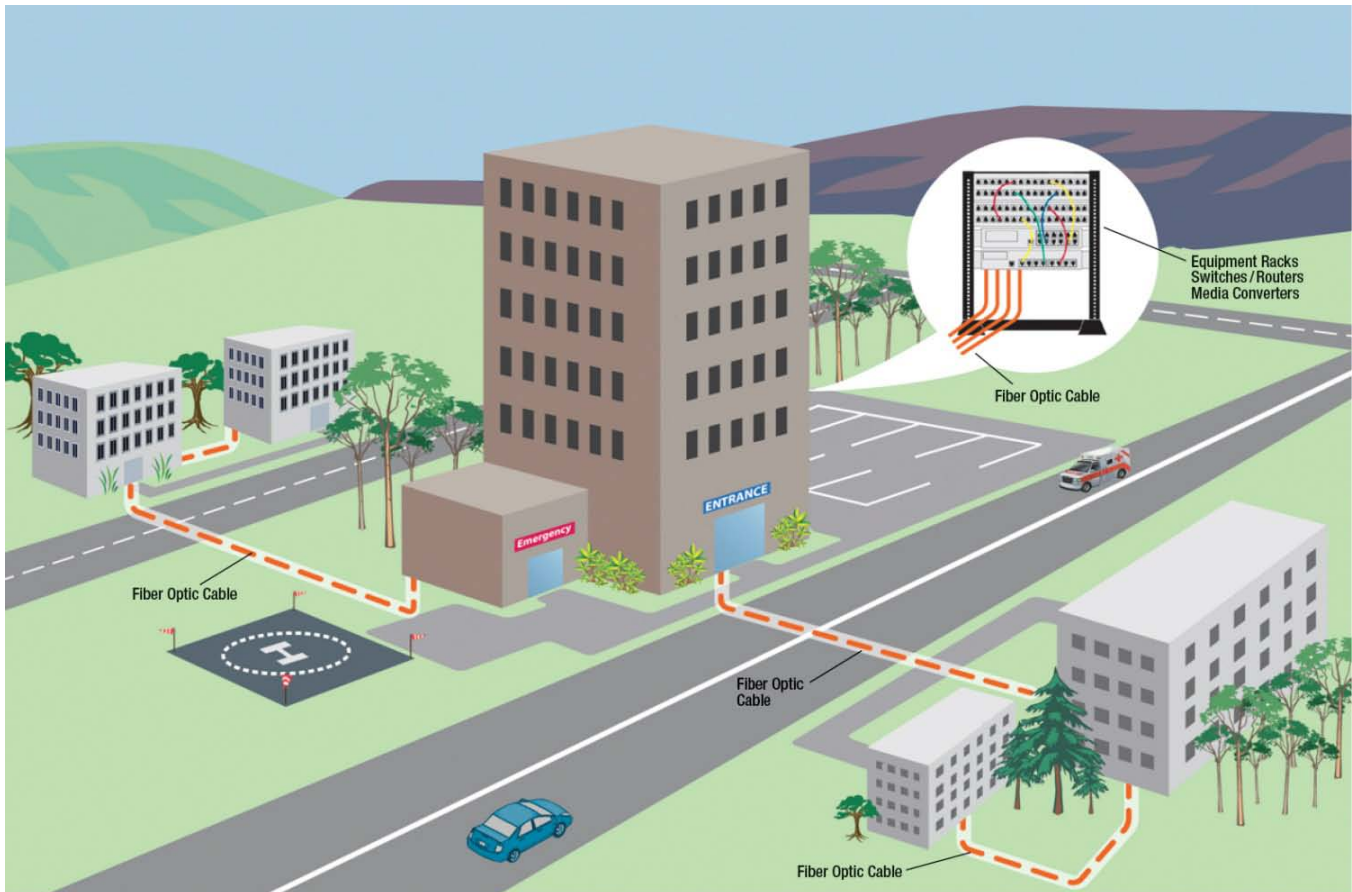
Wireless Point to Multipoint

Typically a central building will house Omni directional antennas to send wireless signals in a 360° pattern around the campus. For most installations 802.11n (and 802.11ac in the near future) will be used to send Ethernet IP voice, video and data throughout the campus. Each "satellite" building employs a directional antenna(s) to connect to the central building. This is called a point to multipoint network. As with any outdoor WiFi network, clear Line of Sight (LOS) is critical. Additionally, proper antenna alignment is necessary to ensure optimal signal quality. L-com supplies all of the antennas, RF amplifiers, low loss cabling and equipment enclosures to support these types of networks.



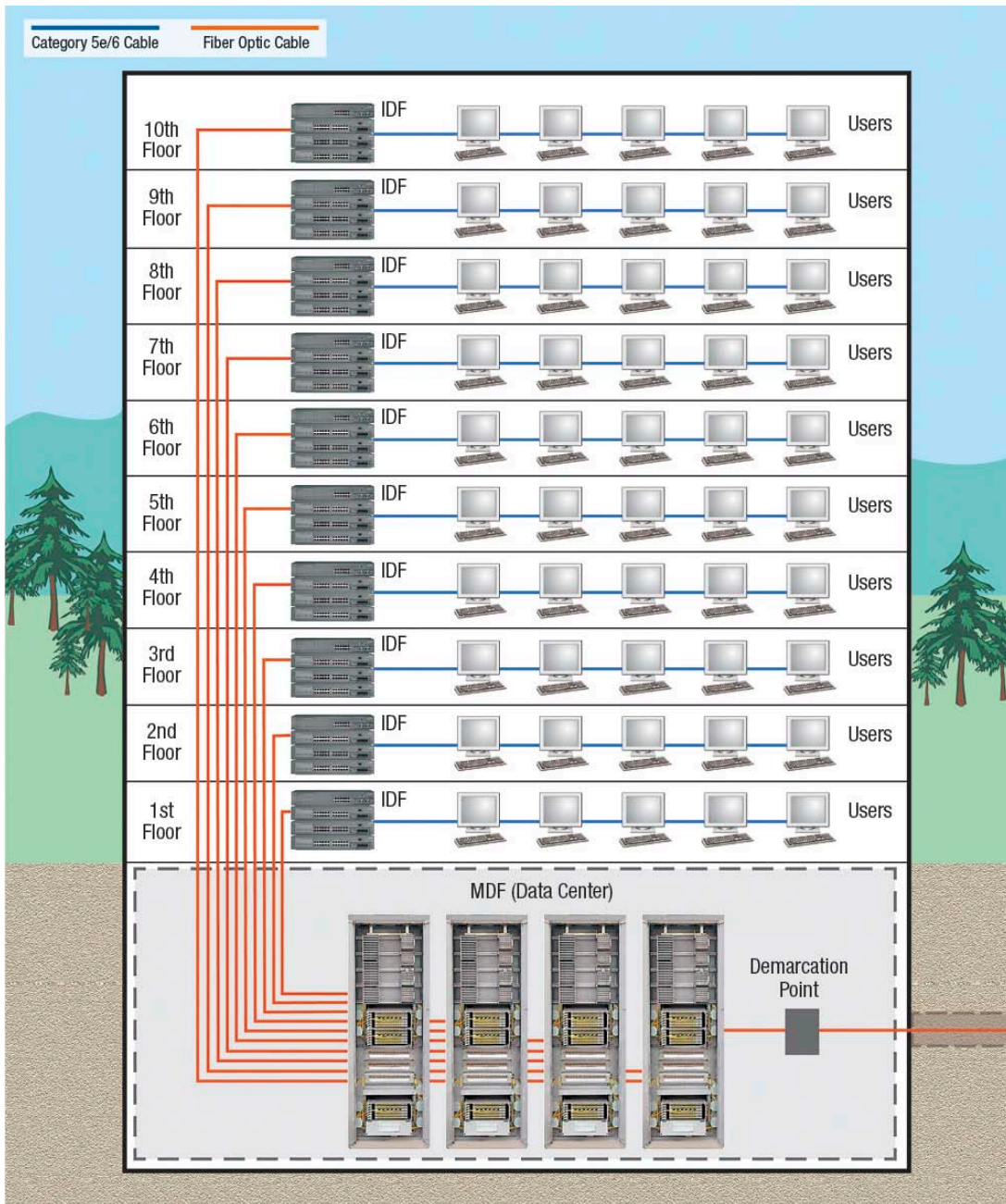
Wired Fiber Backbone

In some cases where Non Line of Sight (NLOS) or other issues prevent using a wireless network for a medical campus, wired networks are used to connect the buildings. Typically fiber optic cabling (either Multimode or Single mode for higher bandwidth and longer cable runs) is used to connect the data center in the central building to data centers in the satellite buildings. Inside the buildings media converters are used to convert the fiber to copper Ethernet cables that then connect to routers and Ethernet switches. L-com provides the fiber cabling, media converters, adapters, switches, racks and panels required for wired medical campus networks.



Wired Infrastructure/Data Center

L-com offers premise cabling and allied connectivity products for the entire wired communications infrastructure including riser rated and Plenum Multimode and Single mode fiber optic cabling, adapters, and connectors, Plenum and Low Smoke Zero Halogen (LSZH) Category 5e/6/6a bulk cable and patch cables, off the shelf and custom copper and fiber cable assemblies, server racks, patch panels, rack mount UPS systems, rack mount switches and network attached storage (NAS). From the IDF to the data center, L-com has the products you need to build a high speed, fault tolerant medical communications network to address voice, video and data applications.



L-com, a global leader in the manufacture of wired and wireless connectivity products, offers a wide range of solutions and unmatched customer service for the electronics and data communications industries. The company's product portfolio includes cable assemblies, connectors, adapters, computer networking components, and custom products, as well as their HyperLink® line of wireless products which include Antennas, RF Amplifiers, Coaxial lightning and surge protectors, and NEMA rated enclosures.

L-com's HyperLink® wireless products are designed for WiFi, WiMAX, SCADA, 802.11a/b/g/n, RFID and Bluetooth applications. Trusted for over 30 years, L-com, which is headquartered in North Andover, MA, is ISO 9001: 2008 certified and many of its products are UL® recognized. www.l-com.com

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