



Tellabs® Optical LAN Solutions for Healthcare

Unify services and networks to reduce costs, increase security and provide industry-leading network availability

Healthcare facilities have undergone rapid changes in recent years. But, their copper-based LANs have remained much the same in terms of equipment, cabling and network architecture for a decade or longer. It is time for healthcare LANs to evolve to meet the high bandwidth and network availability demands of mission critical applications and the wireless device explosion.



Tellabs Optical LAN is a smart choice for healthcare facilities to unify services and networks on one easy-to-manage fiber-based network to better support technology-based initiatives.

- Optical LANs are simpler than copper-base networks. There is less equipment and cabling to house and maintain.
- Optical LANs reduce operating costs because they have fewer electronics, less cabling, lower power needs and do not require telecom rooms.
- Fiber networks are ideal for current network demands and migration to next-gen technologies because they have no theoretical bandwidth capacity ceiling.
- Medical diagnostic equipment works better with a fiber-based network because there is no electromagnetic interference.
- Optical LANs remove thousands of pounds of cabling plastics from healthcare facilities, improving smoke load and sustainability.
- Optical LANs provide military-grade security for improved HIPAA compliance.

Tellabs Optical LAN Benefits

Optical LANs are a better choice for healthcare facilities that rely on their networks to enable mission-critical medical equipment, health records and staff collaboration.

The benefits are clear:

People

Patient satisfaction rises when they know their care, in part, is provided for over a reliable, secure, high-performing network infrastructure. Patients and their families are also able to access broadband services anywhere in the facilities via wired, Wi-Fi or cellular connectivity. Hospital administration benefits from the reduced operating costs of the simple, scalable fiber-based network. Medical staff enjoys the reliable connectivity that powers the applications and health records upon which they rely to provide quality patient care.

Network

Tellabs Optical LAN provides greater bandwidth and lasts longer than traditional copper-based networks. Optical LAN has greater gigabit Ethernet access density with far less cabling. The solution delivers superior high availability for critical care and increased security for electronic protected health information (ePHI). It has reduced impact of electro-magnetic interference (EMI), which is important around highly sensitive medical equipment. The solution provides more flexibility for network moves, adds and changes so retrofits, expansions and upgrades are less intrusive on patient care. Optical LAN requires less space for a main data center and can eliminate the need for telecom rooms and reduce telecom enclosures. All services and networks can be converged on one fiber-based network for more efficient LAN management across the hospital campus and remote facilities.



Tellabs Optical LAN is deployed at Guthrie Hospital in Corning, NY.

Operations

Optical LANs unify healthcare services and networks while reducing costs, improving network reliability and increasing security. The solution offers unique benefits relative to HIPAA protocols, PCI compliance, infection control (reduce HEPA tenting) and TIA-1179 cabling. Network managers can provision over fiber scalable interactive patient care, patient monitoring, entertainment, nurse call, clinical info systems, access control, security, surveillance, automation, safety, fire systems, environmental, CCTV, AV and all forms of video. It's the smart choice for full service hospitals that need reliable network coverage in waiting rooms, nurse stations, patient rooms, exam rooms, emergency care, operating rooms, intensive care, recovery, diagnostics radiology, therapy, cafeteria, administration, physician, pharmacy and affiliated clinics.

Summary

Healthcare facilities need to keep pace with ever-evolving LAN technologies to support mission-critical applications and health records. Tellabs Optical LAN lowers CapEx and OpEx, reduces power consumption and need space in facilities while boosting bandwidth and security.

Next steps.

Visit www.tellabs.com to learn more about how Tellabs Optical LAN solutions are solving enterprise network challenges while significantly reducing CapEx and OpEx, power consumption, and space requirements. If you have a question, please email ask@tellabs.com.



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