Application Brief – Gigabit & Fast Ethernet Networks

Are you looking for high-reliability, wireless Ethernet connectivity between campus buildings?

If so, you need to consider fSONA's award winning SONAbeam™ Gigabit Ethernet solutions!

fSONA Communications Corp. offers a complete line of high quality, field proven Free Space Optical (FSO) transceivers for rapid deployment in Ethernet networks. The SONAbeam™ family of products provides transport services for 10BaseT, 100BaseT and 1000BaseT (Gigabit) Ethernet for line-of-site links at distances up to 4km. SONAbeam™ is the highest reliability wireless connectivity solution available for Gigabit and Fast Ethernet LAN extensions.

» Growth of Ethernet

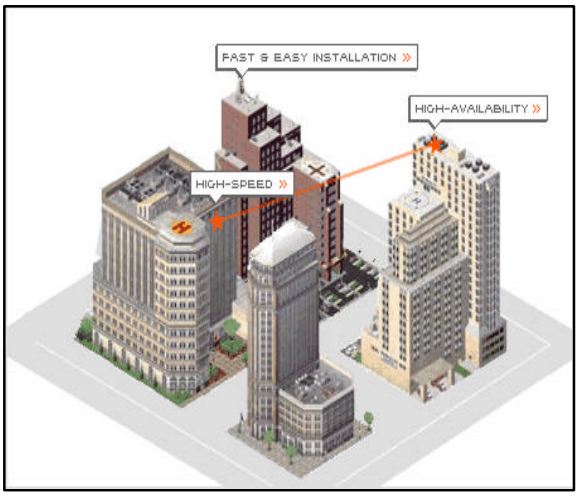
Today, approximately 90% of business data starts and ends on Ethernet LANs. Gigabit Ethernet has emerged as the corporate standard, because it is inexpensive, widely understood, and backwards compatible to existing Ethernet networks. Despite the recent telecom downturn, enterprises worldwide are still spending roughly $82 billion a year on WAN and Internet access services[1].

Corporate and campus LANs are seeing substantial infrastructure growth as local bandwidth requirements create building-to-building bottlenecks. Gigabit Ethernet solutions from fSONA quickly add the economical bandwidth that is required in today's networks, and the return on capital investment can often be justified in under one year.

» Typical Applications

The most widespread application for SONAbeam™ is to provide wireless campus LAN extensions between buildings. Many customers also use SONAbeam™ for high-bandwidth backhaul to Internet Service Providers (ISPs). SONAbeam™ is also perfect for disaster recovery planning (DRP) because it provides both physical and technological diversity.

With near zero latency and jitter, SONAbeam™ is ideal for quality of service (QoS) applications such as Voice over IP (VoIP) and digital interconnects to legacy PBX voice telephony. Other bandwidth-intense applications include teleconferencing, video-on-demand (VOD), telemedicine, and server farm consolidation.



[1] Infonetics Research Inc., May 2002

» The SONAbeam™ Solution

Whether your network is in a university, corporation, hospital, government, or military campus, SONAbeam™ delivers the carrier-quality link performance that you demand. Unlike wireless RF technologies, SONAbeam™ technology is inherently secure. SONAbeam™ transmits eye-safe, invisible beams of light through the air between buildings and through windows. It does not suffer from spectrum interference or licensing issues, and can scale to much higher bandwidths than RF.

The SONAbeam™ Ethernet family of products includes:

Product	Application	Operating Range
» **SONAbeam™ 52-M**	10-base Ethernet / NxT1	200m to 4050m
» **SONAbeam™ 155-S**	100-base Ethernet / OC-3	75m to 2450m
» **SONAbeam™ 155-M**	100-base Ethernet / OC-3	200m to 3150m
» **SONAbeam™ 1250-S**	1000 / 100-base Ethernet / OC-24	100m to 2250m
» **SONAbeam™ 1250-M**	1000 / 100-base Ethernet / OC-24	200m to 3400m

When trenching fiber sounds too difficult and too expensive, consider the advantages of the SONAbeam™ solution. It is wireless, offers line rate throughput equivalent to fiber with comparable bit error rate (BER) performance and similar immunity to electromagnetic interference. Installing a SONAbeam™ link is like running an invisible strand of fiber between buildings, without the expense and lengthy deployment schedule of fiber. Imagine installing a Fast Ethernet or Gigabit Ethernet link between buildings in a couple of hours, once the mount and cabling are in place.

Contact your local fSONA representative for a list of industry partners, and more details on how you can take full advantage of the SONAbeam™ Ethernet solution.

Network Magazine PRODUCT OF THE YEAR 2002

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