Real World Applications

LSI Logic Corporation

LSI Logic's new campus includes the IBDN end-to-end structured cabling system to support leading-edge semiconductor manufacturing processes.

LSI Logic, a $1.24 billion custom semiconductor manufacturer, set out to create an extensive campus, in Gresham, Oregon, to provide the latest services and technologies to meet its most stringent manufacturing requirements. The construction is the first in a multiphase undertaking which is situated approximately 15 miles east of Portland. The new 422,000 square foot campus which will employ approximately 460 people, consists of a semiconductor fabrication facility, a main office building, and an energy building. Additional phases have been planned for construction in the future.

LSI Logic's Gresham Campus
Gresham, Oregon

This major manufacturing hub will produce approximately 3,500 eight-inch diameter wafers per week with chips having 0.18-micron circuit line widths. The product manufacturing has been scheduled to commence in mid 1998. At all of its fabrication sites, LSI Logic manufactures application-specific integrated circuits (ASICs) and system-on-a-chip solutions for consumer, communications and computer applications. The CoreWare® approach allows LSI Logic to quickly design and produce an electronic system on a semiconductor chip by selecting high-level, pretested building blocks, or "cores" - such as microprocessors, digital signal processors (DSPs), audio and video decompression engines and Ethernet networking controllers connecting them in a single circuit, and then tailoring the chip to a given customer's needs. To support these advanced manufacturing processes, LSI Logic chose to install the IBDN end-to-end structured cabling system.

WilTel Communications, LLC was appointed by LSI Logic to be the key provider for this major project. WilTel of Foster City, California, is a provider of integrated communication solutions for voice and data technologies. Such technologies include Nortel's Meridian™ PBX system and NORDX/CDT's IBDN structured cabling system.

"LSI Logic is a leading-edge manufacturer that depends on advanced manufacturing technologies and applications to turn-out high performance products." explained Cathy Stewart, WilTel sales executive. "The IBDN system was chosen to support LSI Logic's present applications and the higher speed applications that they intend on implementing in the next few years."

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As a NORDX/CDT Certified System Vendor, WilTel designed and installed the telecommunications equipment along with the cabling infrastructure. The installation of the cable plant was sub-contracted to Sasco Data Systems of Santa Clara, California, who is also a NORDX/CDT Certified Systems Vendor. "The IBDN system seamlessly integrates the Nortel Meridian PBX system with the user, thus providing them with the high quality voice and data services that they require", said Stewart.

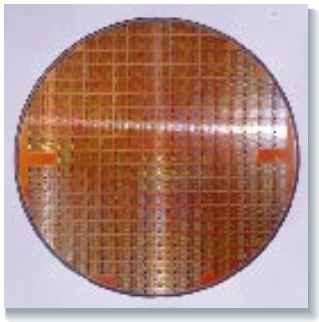
Fiber optic cables for data transmission along with copper cables for voice delivery were placed between the buildings, linking together the 1700 workstations. In-building fiber and Category 5 copper plenum cables completed the campus' cabling solution. Each workstation is equipped with a four port Modular Data Voice Outlet (MDVO) and each outlet is arranged for one voice and three data connections.

"The IBDN solution is easy to configure and install and any last minute site nuances are easily accommodated", explained Chris Bush, project manager for Sasco Data Systems. All of the wiring closets throughout the campus are equipped with the complete line of IBDN products, materials such as the BIX copper cross-connect system, the BIX patch panel system and associated patch cords as well as the Fiber Express patch panel system and its applicable patch cords.

The main cross-connect within the Gresham Campus

Upon the completion of the first phase of the campus program all inter and intra building cabling and associated connecting hardware received NORDX/CDT's IBDN Certification status. This means that the cable plant and all associated connection and distribution hardware are warranted for twentyfive years and that the network and voice applications will receive a lifetime application assurance. The warranty guarantees that the cable system will support the intended services for now and well into the future.

"The use of the IBDN solution and the peace of mind that the certification of the installation brings to LSI Logic, is a real benefit and should not be undervalued", claimed Bob Gendron, vice president of sales at NORDX/CDT, "Our products are designed and manufactured with the highest of integrity and pride and they are in accordance with EIA/TIA industry standards. The IBDN system provides LSI Logic with excellent value for their dollar. They know that they have installed a system that will see them through their most demanding network application requirements".



LSI Logic's Gresham Campus will produce up to 3500 8 inch wafers per week

This major complex in the Portland area will be gradually expanded over the next 15 years to keep pace with market demand. The phase-in of wafer fabrication facilities, or fabs, at the Gresham site is the latest step in LSI Logic's strategy to expand capacity in a flexible way, meeting customer needs well into the next decade. When fully operational, the first fabs will have the capacity to run approximately 3,500 eight- inch wafers per week. With the deployment of the IBDN system, this LSI Logic campus can rest assured that its fast-paced manufacturing processes and its evolving application implementations will be supported.

For more information on NORDX/CDT and our product lines, please call:

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