LattisNet System 3000

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TOPIC --

This article describes the LattisNet System 3000, manufactured by
SynOptics

DISCUSSION --

SynOptics' Network Utility Architecture defines local area networks as
utilities, and combines three elements: connectivity, internetworking and
network management. Physical layer connectivity includes access methods
such as Ethernet, Token Ring and Fiber Distributed Data Interface (FDDI).
Internetworking, used in larger networks, refers to bridges and routers.
Network management systems keep complex networks running reliably and
efficiently.

The LattisNet System 3000 provides integrated LAN data Communications,
internetworking and network management functions within a single network
utility. Modular components satisfy a variety of network needs.

System 3000 concentrators provide a common platform to support the Network
Utility Architecture. The Model 3000 Premises Concentrator and the Model
3030 Department Concentrator hold the modular components that provide basic
connectivity, integrated bridging, and network management utility
functions.

A modular backplane supports IEEE 802.3-compatible Ethernet at 10 megabits
per second (MB/s) and IEEE 802.5 Token Ring at 4MB/s and 16MB/s. System
3000 concentrators offer increased LattisNet module and port density to
support more nodes with less equipment.

System 3000 host modules offer network connectivity. Ethernet host modules
provide media flexibility by offering twisted pair and FOIRL fiber optic
interconnections. Token Ring host modules operate over twisted pair wire.
Auto-partitioning functions disable port connections under specific
Ethernet fault conditions to ensure network integrity. Front-panel LEDs
indicate link status, partitioning, and network management activity. System
3000 Token Ring ring-in/ring-out modules connect to other Token

Ring-compatible devices to create larger LANs. Ethernet retiming modules
help satisfy the IEEE 802.3 repeater function.

The bridge hardware and bridge management software provide integrated
modular local bridging capabilities. LattisNet Ethernet local bridge
modules have attachment unit interface (AUI) and fiber optic connector
options to interconnect network segments and form single, transparent
LattisNet networks. LattisNet local bridges filter operator-defined data
packets and include a Spanning Tree Algorithm function which provides a
redundant network path for rapid recovery from bridge or link failures.

The network management capabilities include planning, data monitoring,
problem determination and fault isolation from a centralized console.
Network management modules offer AUI and fiber optic connector options.
Real-time network information is displayed graphically as a network
hierarchy with Expanded Views of individual concentrators. A report
generator captures and stores specific data on request. LattisNet Network
Management permits individual port partitioning. It also allows the
network manager to set module- and port-level activity and fault thresholds
based on media access control (MAC)-level parameters and statistics.

LattisNet products implement IEEE 802.3-compatible Ethernet over
twisted-pair wire and fiber optic cable. They also support both IEEE 802.5
Token Ring and 802.5-compatible networks over twisted-pair wire.

You can find the phone number and address for SynOptics in a separate
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