

System 800 10BASE-T Workgroup Hubs



Immediate Network Connectivity

The System 800™ 10BASE-T hubs from Bay Networks™ deliver standards-based, plug-and-play solutions for small stand-alone networks and low-density segments requiring connectivity to the enterprise network.

Simple Network Expansion

Featuring a compact design and low cost, the System 800 hubs represent an extraordinary value for customers seeking Bay Networks quality and reliability for their small Ethernet networks.

Central Network Management

The System 800 hubs are compatible with the IEEE 802.3i 10BASE-T specification for supporting 10 megabit per second (Mbps) Ethernet over unshielded twisted pair (UTP) wire.

Two types of System 800 10BASE-T Workgroup Hubs are available, each offering plug-and-play solutions for specific environments. The Model 800

features eight ports for linking to equipment such as PCs, printers and servers. The Model 810M is identical to the Model 800, with the addition of built-in Simple Network Management Protocol (SNMP) firmware, allowing port-by-port management from a central station.

The System 800 is extremely versatile and works with other Bay Networks Ethernet products, such as the System 2000™, System 3000™, BayStack™, Distributed 5000™, and System 5000™ hubs, as well as Ethernet interfaces on Access Node (AN™), Access Node Hub (ANH™), Access Stack Node (ASN™) and Backbone Node (BN™) routers. The System 800 is also backed by a limited lifetime warranty, which guarantees free replacement of the unit should any components fail.

Benefits

Immediate Network Connectivity

The System 800 10BASE-T workgroup hubs provide a simple, cost-effective solution for small, stand-alone Ethernet networks. The hubs require no special configuration, delivering a true “plug-and-play” solution for supporting Ethernet connections over readily-available UTP cabling.

Simple Network Expansion

If the local network should expand, System 800 hubs can be connected to accommodate additional users. They can be connected using straight-through UTP patch cables; or linked over a variety of media using the AUI port and appropriate transceiver.

Central Network Management

The Model 810M 10BASE-T Workgroup Hub features integrated SNMP agent firmware, offering an excellent solution for small Ethernet segments that require full standards-based network monitoring and control. The built-in SNMP enables small Ethernet segments, such as workgroups and branch or satellite offices,

to be managed from a single, central management station. Local load capabilities allow the hub to obtain management agent firmware from local memory, eliminating the requirement for a separate boot server. The local image is stored in flash memory, enabling agent upgrades to be accomplished quickly and easily.

Features

System 800 10BASE-T workgroup hubs offer a compact, lightweight, plug-and-play solution for connecting local computing resources on a common system. System 800 hubs support small offices and stand-alone networks requiring simple network connectivity.

Two types of System 800 hubs are available: the Model 800 and the Model 810M. The Model 800 offers eight RJ-45 modular receptacles for supporting end users, printers, servers or other networked devices over readily-available UTP cabling. Additional features include a front-panel MDI-X/MDI switch, an integrated AUI port, and a series of front-panel hub- and port-level LEDs.

Network Management

The Model 810M is just like the Model 800, with the addition of integrated management capabilities. The Model 810M features a dual-stack agent supporting SNMP over both IP and IPX, allowing seamless integration of System 800 hubs into TCP/IP as well as Novell IPX-based networks. The Model 810M also offers a back-panel DB-9 service port for local boot configuration, management and maintenance operations, while additional front-panel LEDs indicate microprocessor faults and network management control.

The Model 810M is compatible with Bay Networks' Optivity® network management system for the SunNet Manager, NetView/6000, Novell ManageWise and HP OpenView platforms. Optivity delivers comprehensive fault and diagnostic data for monitoring and controlling hubs from a central management console and includes

support for the Expanded View™ graphical user interface, which provides a real-time image of the hub on the management station screen. Fault, performance and configuration pull-down menus on the Expanded View image offer diagnostic, status and activity data for both hub and port levels. Network managers may also partition and enable individual ports, as well as obtain port-level performance statistics, such as good packets, errors, and incoming and outgoing data.

Easy Installation

Measuring 12 inches wide, five inches deep and two inches tall, the System 800 hubs offer a low-profile solution for locations short on space. The hubs can be installed just about anywhere — on a desktop, mounted to a wall or, with the appropriate brackets (optional), in an EIA-standard 19-inch equipment rack.

And System 800 hubs include a series of front-panel LEDs to indicate hub-level power, incoming data and collisions, while per-port LEDs report incoming data and link status for individual connections.

Easy Connectivity

The convenient front-panel MDI-X/MDI switch allows the hubs to be linked using straight-through UTP wire connections, eliminating the need for special cross-over cables. An integrated attachment unit interface (AUI) port also allows System 800 hubs, equipped with the appropriate transceiver, to connect to a variety of backbones using twisted pair, fiber optic and coaxial cabling. The AUI port also allows the hubs to be “daisy-chained” from existing coaxial networks, or cascaded to build hierarchically-configured topologies.

External Power Supply

System 800 hubs utilize an external universal input power supply that attaches to the hubs via a 6-pin mini DIN connector. An IEC connector on the power supply

housing accommodates standard power cords, satisfying international power requirements. The external power supply also eliminates the need for built-in fan units in the hubs, increasing the reliability and mean time between failures (MTBF).

Limited Lifetime Warranty

System 800 hubs feature the same high-level quality and reliability that sets the Bay Networks product family apart from the competition. That's why Bay Networks backs System 800 hardware with a limited lifetime warranty. Should any component fail, Bay Networks will replace the unit absolutely free. And unlike most competitors' warranty programs, Bay Networks covers the power supply as well as the hub — ensuring System 800 hubs will provide a lifetime of reliable service.

Figure 1 | The Model 800 10BASE-T Workgroup Hub offers a compact solution for supporting small, stand-alone Ethernet network segments.

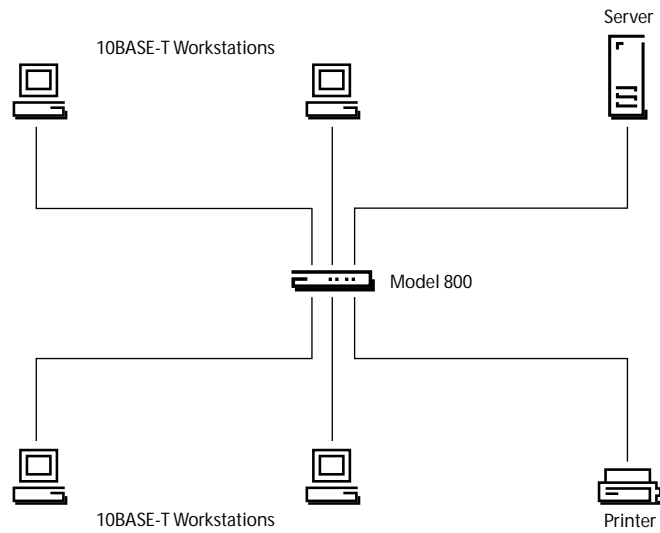
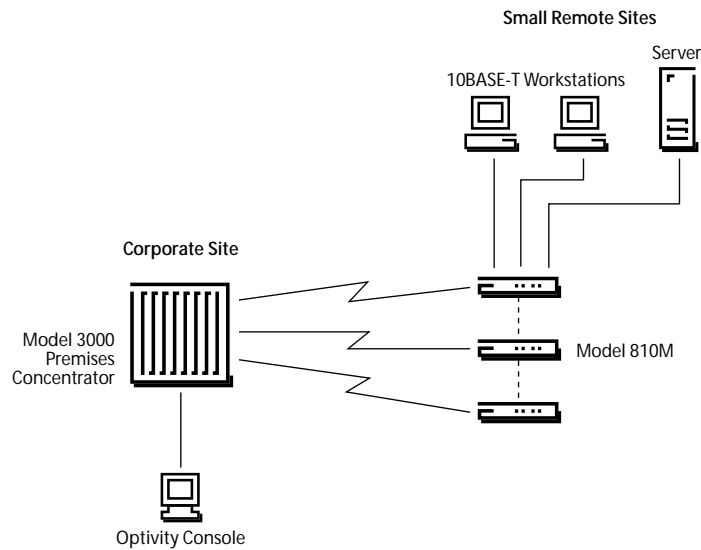


Figure 2 | The Model 810M 10BASE-T Workgroup Hub includes integrated SNMP agent firmware, offering a manageable solution for supporting remote workgroups that can be managed from a single, central site.



Technical Specifications

Technical specifications for the System 800 10BASE-T Workgroup Hubs appear in Table 1.

Table 1 | System 800 10BASE-T Workgroup Hubs Technical Specifications

Data Rate	10 Mbps Manchester Encoded IEEE 802.3
Standards Support	IEEE 802.3i Type 10BASE-T
Physical Dimensions	(H) 1.6 in x (W) 12 in x (D) 5.2 in (H) 4.0 cm x (W) 30.4 cm x (D) 13.2 cm
Weight	2 lbs (0.9 kg)
Ethernet Interfaces	8 RJ-45 connectors for 10BASE-T connections 1 DB-15 connector for an AUI connection
Environmental Specifications	Operating temperature: 5°C to 40°C Operating humidity: 85% max. relative humidity, non-condensing Operating altitude: 10,000 ft (3,048 m), 40°C max Storage temperature: -25°C to 70°C Storage humidity: 95% max. relative humidity, non-condensing Free fall/drop: ISO 4180-2, NISTA 1A Vibration: IEC 68-2-6/34 Shock/bump: IEC 68-2-27/29
External Power Supply Specifications	Input AC voltage: 90-240 VAC Input AC line frequency: 47-63 Hz Input AC power: 30W Output DC voltages: +5V; +12V; -12V Output DC power: 20W
Memory (Model 810M only)	32KB SRAM 512KB DRAM 64KB EPROM 8KB EEPROM 256KB Flash EPROM
Microprocessor (Model 810M only)	10MHz Motorola 68HC001 (68000 class) SNMP MIB Support (Model 810M only) IETF MIB-II (RFC 1213) IETF SNMP Repeater MIB (RFC 1516)
Electromagnetic Emissions	Meets FCC Part 15, Subparts A and B, Class A Meets EN 55 022 (CISPR 22: 1985), Class B Meets General License VDE 0871, Class B (AmtsbIVfg 243/1991, 46/1992) Meets VCCI Class 1 ITE
Electromagnetic Susceptibility	Electrostatic discharge (ESD): IEC 801-2, Level 2/4 Radiated electromagnetic field: IEC 801-2, Level 2 Electrical fast transient/burst: IEC 801-4, Level 2 Electrical surge: IEC 801-5, Level 2
Safety Agency Approvals	UL Listed (UL 1950) CSA certified (CSA 22.2 #950) TUV licensed (EN 60 950)

Ordering Information

Ordering information for the System 800 10BASE-T Workgroup Hubs appears in Table 2.

Table 2 | System 800 10BASE-T Workgroup Hubs Ordering Information

Order Number	Description
800	Model 800 10BASE-T Workgroup Hub. Incorporates eight 10BASE-T Ports and one AUI Port (includes North American power cord).
810M	Model 810M Managed 10BASE-T Workgroup Hub. Incorporates eight 10BASE-T Ports, one AUI Port, and IP/IPX Network Management Agent (includes North American power cord).



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