



LinkBuilder TP/8 LinkBuilder TP/12 Ethernet Hubs

*Complete, cost-effective hub solutions
for smaller 10BASE-T networks*

LinkBuilder TP/8 and LinkBuilder TP/12 Ethernet hubs put flexibility and quality design comfortably within the budget of a standalone, small office network. Simple to install and use, they are ideal for LANs with no on-site network support.



3Com's LinkBuilder® TP/8 and LinkBuilder TP/12 hubs provide high-quality connectivity solutions at entry-level prices for smaller Ethernet networks that don't require comprehensive management. Built for environments where space and network support are at a premium, the hubs are compact, reliable, and easy to install and use.

The LinkBuilder TP/8 is equipped with 8 RJ-45 10BASE-T ports and 1 BNC thin

coaxial backbone port. A separate port can be used instead of the eighth port for cascading multiple hubs on the same segment.

The LinkBuilder TP/12 provides 12 RJ-45 10BASE-T ports and 1 port for a backbone connection using an optional Transceiver Interface Module. To improve performance, you can segment the LAN quickly and easily using the slide-in LinkBuilder Bridge MicroModule.

Key Benefits:

- **Optimized for small LANs.** With a compact footprint and plug-and-play simplicity, the hubs are well adapted for small, standalone network environments.
- **Feature-rich platforms.** You get the flexibility of a quality hub for the cost of an entry-level wiring concentrator. Network backbone and cascading connections provide built-in capability for growth and change.
- **LinkBuilder TP/12 local bridging option.** By inserting a Bridge MicroModule in the LinkBuilder TP/12, you can segment the LAN

without having to purchase and install a dedicated bridge or router.

- **Simple to install and use.** Hub installation and operation require no special expertise. No management software is necessary. A full range of LED indicators make it easy to spot faults and overload conditions.

- **Trouble-free operation.** The hubs are warranted by 3Com for life and are backed by 3Com's worldwide service organization. Both hubs have a calculated mean time between failure (MTBF) of more than 11 years.





LinkBuilder TP/8 Hub

LinkBuilder TP/8 is the premier choice for standalone, unmanaged workgroups in small businesses and local offices. It also can be effectively used to link networking equipment in teleworking centers and personal offices.

In addition, LinkBuilder TP/8 hubs are very useful in areas of large, structured networks where extra ports are needed—for instance, in engineering departments or on brokerage trading floors where users have several computing devices on their desks.

Eight RJ-45 connectors provide links to today's most popular and economical Ethernet cabling: 10BASE-T unshielded twisted pair (UTP). To expand the LAN segment, you can use the MDI port on the front of the unit (in place of an eighth station port) for cascading multiple hubs together via UTP. A BNC port lets you link the hub to a thin Ethernet backbone.

LinkBuilder TP/8 can be installed by anyone—no special knowledge is necessary. Diagnostic LEDs on top of the unit show port status, power, and bandwidth utilization on the LAN segment.

The hub is powered by an external A/C power adapter. Both hub and power adapter are covered by 3Com's lifetime warranty.

LinkBuilder TP/12 Hub

The LinkBuilder TP/12 is a key component of 3Com's entry-level Ethernet network solution. With 12 RJ-45 connectors per unit, the hub can be deployed in a standalone LAN or cascaded to as many as three other hubs to provide up to 42 unmanaged twisted-pair connections in a single LAN domain.

Use LinkBuilder TP/12 hubs to integrate UTP segments into a variety of corporate LAN backbone media types by simply inserting an optional Transceiver Interface Module. If you need to segment your network to improve performance, just slide in the optional LinkBuilder Bridge MicroModule.

A complete range of diagnostic LEDs helps you isolate faults to ensure uptime. The hub comes with a lifetime warranty.

LinkBuilder TP/12 Bridging Option

The optional LinkBuilder Bridge MicroModule (3C16060) is an unmanaged local bridge that slides into a Transceiver Interface Module slot in the LinkBuilder TP/12 to provide low-cost, simple bridging. Using this bridge to segment the LAN, you can boost overall performance by keeping local traffic off the backbone.

The Bridge MicroModule has one standard AUI port for twisted-pair, fiber, or coaxial transceiver connections. It is self-learning (256 stations), requires no configuration, and offers full-rate forwarding, filtering, and packet buffering for optimum throughput.

LinkBuilder TP/12 Backbone Connections

A complete set of slide-in Transceiver Interface Modules is available for LinkBuilder TP/12 backbone links. These modules are exceptionally easy to install, making network expansion at remote sites simple and cost-effective. Mounting transceivers inside the hub rather than externally maintains uptime by ensuring the integrity of the backbone connection.

Transceiver Interface Module types include:

- Female AUI (3C1206-0)
- Fan-Out with male AUI (3C1206-4)
- ST fiber (3C1206-5)
- BNC coaxial (3C1206-6)
- TP RJ-45 (3C12063)

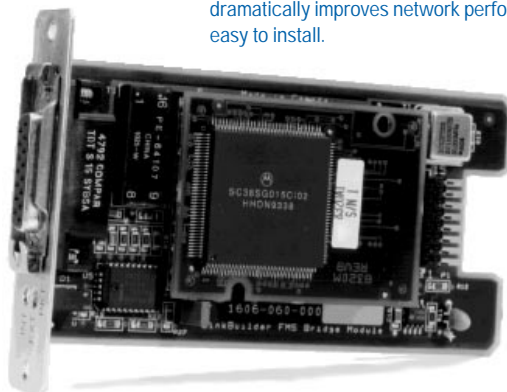
Other 3Com Products For Small Ethernet Networks

EtherLink® III Parallel Tasking adapters outperform other Ethernet adapters by 25 to 110 percent. 3Com's AutoLink™ auto-installation software lets you install them on NetWare® clients in three minutes. The adapters work with twisted-pair or coaxial media on ISA, EISA, MCA, or PCMCIA buses, and come with a lifetime warranty.

LinkBuilder Repeaters allow you to cost-effectively incorporate any combination of media types into your network using Transceiver Interface Modules. Repeaters for AUI/AUI, AUI/Fiber, and AUI/BNC connections are available for attaching up to three LAN segments.

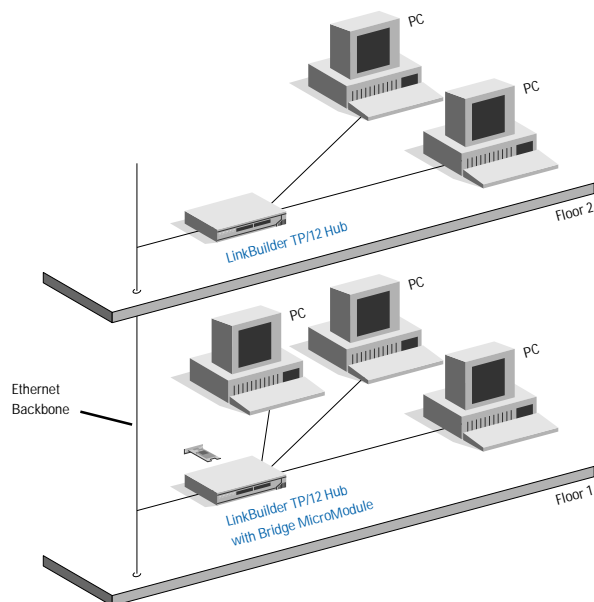
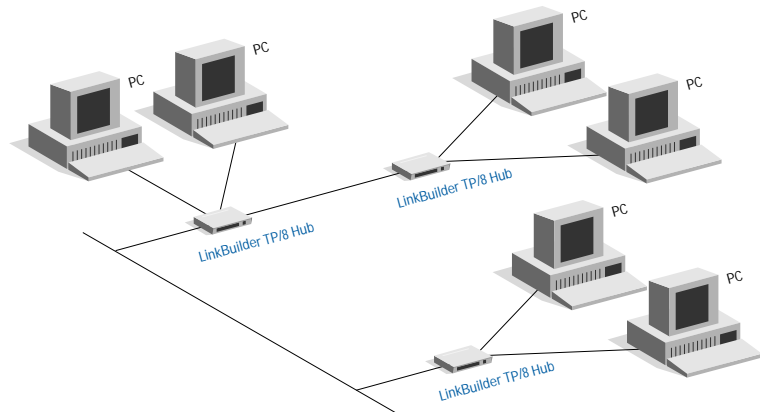
3Com's full line of transceivers provide quick and easy attachments over extended cable segments. ISOLAN® Micro Transceivers give you multiple-media connections, excellent reliability, and simple fault diagnosis.

The cost-effective LinkBuilder Bridge MicroModule dramatically improves network performance, and is easy to install.



Cascaded LinkBuilder TP/8 Hubs in a Standalone LAN

The LinkBuilder TP/8 hub offers reliable 10BASE-T connectivity for small LANs that don't have the benefit of on-site network management expertise. As shown here, hubs can be cascaded to create larger workgroups in a single segment, using either a UTP connection or via a thin Ethernet segment.

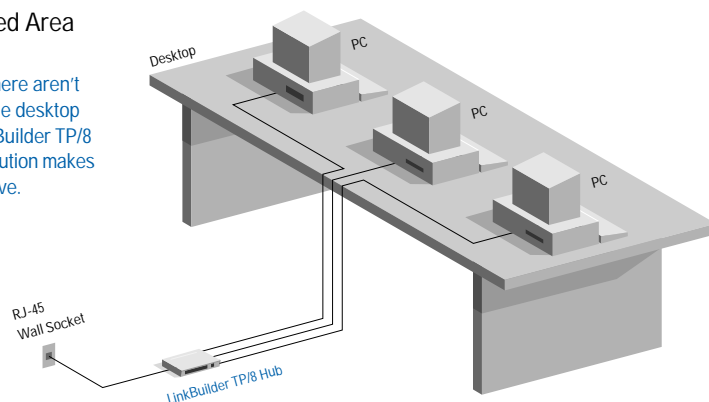


LinkBuilder TP/12 Hubs in a Small LAN with a Backbone

A LinkBuilder TP/12 hub can be connected to any type of Ethernet backbone using the appropriate Transceiver Interface Module or a LinkBuilder Bridge MicroModule. With the Bridge MicroModule option, you can implement unmanaged local bridging to keep local traffic off the backbone and improve performance.

LinkBuilder TP/8 in a Densely Wired Area of a Large Network

In an area of a structured network where there aren't enough floor or wall sockets to handle all the desktop devices that need LAN connections, a LinkBuilder TP/8 can furnish the requisite extra ports. This solution makes localized expansion simple and cost-effective.





Specifications

LinkBuilder TP/8 Ethernet Hub

LinkBuilder TP/12 Ethernet Hub

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Manchester: 44 161 873 7717

Electrical

LinkBuilder TP/8

Adapter power requirements:
90 to 260 VAC, 47-63 Hz
(depending on type of adapter)
Hub operating voltage range:
7.5 to 12 VAC (RMS)

Max. I/P current: 0.85A (RMS)
Heat dissipation/hr: 6.5W/22.2 BTU

LinkBuilder TP/12

Power supply: 85 to 264 VAC, 50-60 Hz
Power consumption: 24W
Power inlet: IEC320
Fuse protection: 2A
Heat dissipation/hr: 24W/82 BTU

Environmental Ranges

Operating temperature:
32° to 104°F (0° to 40° C)
Storage temperature:
°0 to 158° F (-10° to 70° C)
Relative humidity (operating):
Up to 95% noncondensing
Relative humidity (storage):
10% to 95% noncondensing

Dimensions and Weight

LinkBuilder TP/8

Width: 8 in/20.1 cm
Height: 1 in/2.7 cm
Depth: 4 1/2 in/11.1 cm
Weight: 1 1/4 lb/0.57 kg

LinkBuilder TP/12

Width: 14 1/4 in/36 cm
Height: 2 1/3 in/6.5 cm
Depth: 8 3/4 in/22.4 cm
Weight: 3 1/2 lb/ 1.6 kg

Standards Compliance

Functional

IEEE 802.3, ISO 8802/3
Electromagnetic Compatibility
EN55022 Level A, CSA 108.8, FCC
20780 15J Level A, IEC801 2/3/4/5,
EN 55101, VCC Class 1

Safety

EN60950, UL1950, CSA22.2,
#950IEEE, ECMA 97

Environmental

IEC68, BS2011

Reliability

LinkBuilder TP/8

MTBF: 102,025 hours (calculated)

LinkBuilder TP/12

MTBF: 97,984 hours (calculated)

Media Interfaces

LinkBuilder TP/8

8 RJ-45 TP (MDIX)
1 RJ-45 TP cascade (MDI)
1 BNC

LinkBuilder TP/12

12 shielded RJ-45 TP
Optional Transceiver Interface Module
Optional Bridge MicroModule

Indicators

LinkBuilder TP/8

Per unit: power status, collision,
% bandwidth utilization
Per RJ-45 port: link status, partition
Per BNC port: packets received,
partition

LinkBuilder TP/12

Per Unit: power status, packet reception,
collision
Per Port: link status, partition

Mounting

LinkBuilder TP/8 includes wall
mounting kit
LinkBuilder TP/12 requires the
LinkBuilder 19-Inch Rack Mounting
Kit, ordered separately

Ordering Information

Hubs

LinkBuilder TP/8 Hub	3C16180
LinkBuilder TP/12 Hub	3C16170
LinkBuilder TP/12 and EtherLink III SuperBundle (1 hub, 5 adapters)	3C50901

Modules for LinkBuilder TP/12

LinkBuilder Bridge MicroModule	3C16060
AUI Transceiver Interface Module (one female AUI)	3C1206-0
Fan-Out Transceiver Interface Module (one male AUI)	3C1206-4
Fiber-Optic Transceiver Interface Module (one pair ST)	3C1206-5
Coaxial Transceiver Interface Module (BNC)	3C1206-6
TP Transceiver Interface Module (RJ-45)	3C12063

Accessories

LinkBuilder 19-Inch Rack Mounting Kit	3C16050
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Lifetime Warranty

The LinkBuilder TP/8, LinkBuilder TP/12, and LinkBuilder Bridge MicroModule are covered by a lifetime warranty. LinkBuilder TP/12 power supply and fan are warranted for one year. LinkBuilder TP/8 lifetime warranty includes the power adapter. To qualify for the lifetime warranty, you must submit a registration card. Advance hardware exchange is available during the first year; thereafter, return the hub to 3Com for repair. The lifetime warranty is not offered where restricted or prohibited by law.

To learn more about 3Com products, visit our World Wide Web site at <http://www.3com.com>.

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