

## WorkGroup Hubs

*Cost-effective and highly compact Hubs perfect for workgroups or larger LANs.*

### Key Features

- ▶ *Ethernet/IEEE 802.3, 10BASE-T, 10BASE2, 10BASE5 standards compliant.*
- ▶ *Shielded RJ-45 connectors for use with shielded (STP) or unshielded (UTP) twisted-pair wiring.*
- ▶ *Hub "uplink" port eliminates the need for twisted-pair cross-over cables.*
- ▶ *Internal AC power supply—no bulky wallmount transformers.*

**W**orkGroup Hubs are inexpensive 10BASE-T WorkGroup Hubs which are fully compliant with IEEE 802.3. The Hubs are small which make them ideal for PC workgroups. But they're also easy to attach to thick or ThinNet LANs with the AUI or BNC ports on the back.

Every hub has shielded twisted-pair ports on the front panel for shielded or unshielded twisted-pair cables, and AUI and BNC ports on the back panel. You can use all the ports to connect devices directly with Ethernet interfaces.

You also get an "uplink" port so you don't need to construct separate twisted-pair crossover cables when you connect the Hubs to another 10BASE-T concentrator.

Each port is constantly monitored for signal quality by internal network

management. The Hubs automatically disconnect a device that produces noise or excessive collisions and reconnect it once the error condition is cleared.

The integrity and signal quality of twisted-pair cables are monitored internally through the exchange of link-integrity signals with connected devices. When a collision is detected on a port, the Hubs generate a 96-bit jam which gets transmitted to all other ports.

After a collision, the Hubs completely retime and restore the full amplitude wave form for each retransmitted packet, as well as creating a full-length preamble. This ensures packet integrity across the entire network.

Packets which exceed the maximum legal length for IEEE 802.3 (Ethernet) packets are automatically curtailed. This prevents a device from

blocking the network by transmitting a continuous data stream or extra long packet.

The Hubs also detect the incorrect polarity of the incoming twisted-pair signal and automatically correct it. This simplifies the use of existing telephone wiring.

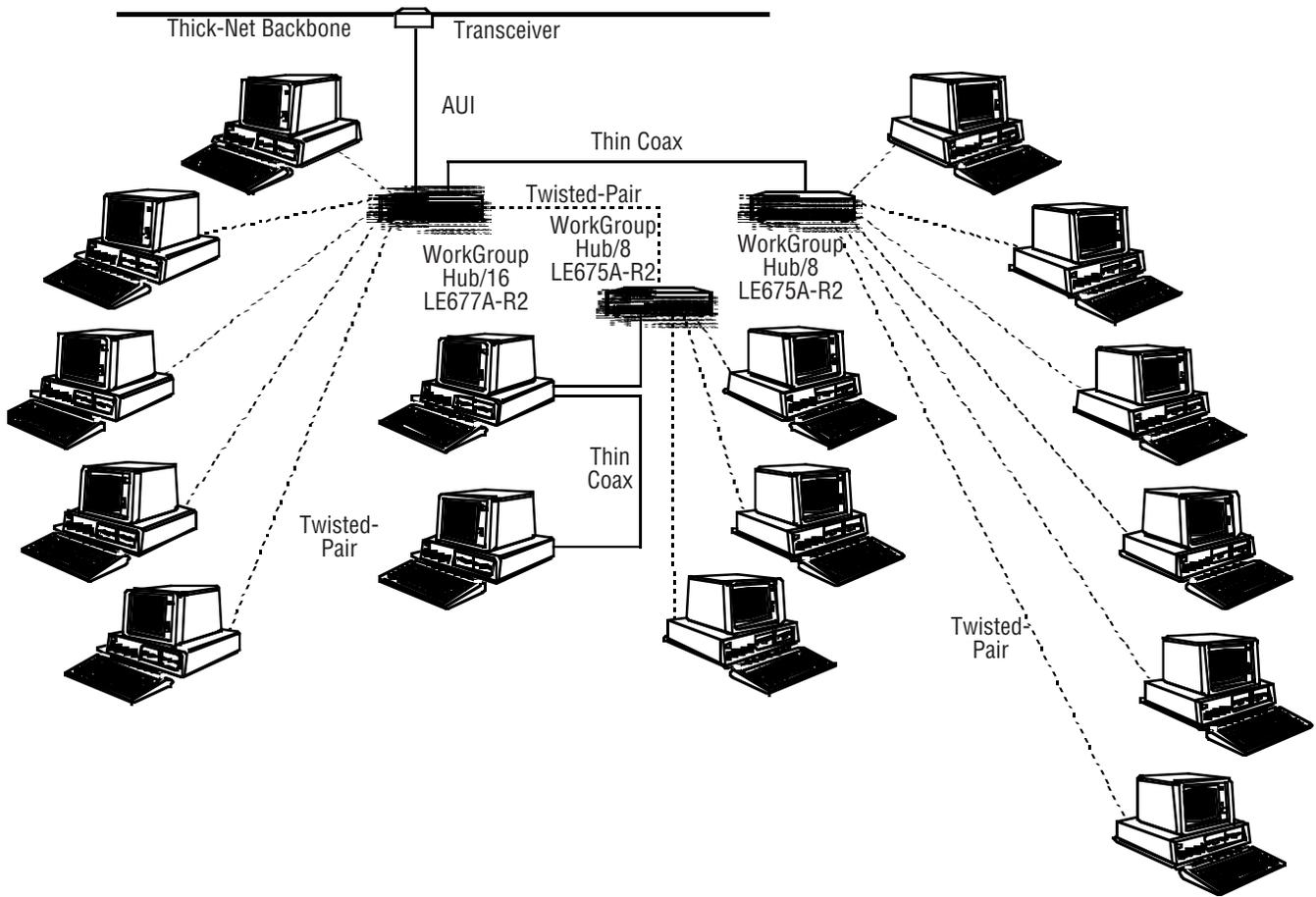
These Hubs' small size, low power consumption, and lack of moving parts and environmental constraints make them practical for almost any office. And they're self-configuring so no installation tools are required.

The 8- and 16-port Hubs are identical except for the number of ports.

However, you can only use the BNC or the AUI alternate port—not both. And you may only use one port at a time because the ports are paralleled internally. There is no switch to select which port you use.

### Typical Application

*Creating a 10BASE-T Hub.*



**Specifications**

**Standards** — IEEE 802.3  
Ethernet 10BASE-T

**Connectors** — Shielded RJ-45  
for 10BASE-T; BNC for  
10BASE2; AUI for 10BASE5

**Indicators** — Unit: Power,  
Collision; Each port,  
Link/Activity, Partition

**Power** — 90-250 VAC,  
60-50 Hz, autosensing

**Size** — 1.7"H x 6.7"W x 8.9"D  
(H4.3 x W17 x D22.6 cm)

**Weight** — 1.4 kg

**Additional equipment you may need:**

- Ready to install, no installation tools are needed.

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*This information will help you place your order quickly.*

**PRODUCT NAME**

**ORDER CODE**

WorkGroup Hub/8.....	LE675A-R2
WorkGroup Hub/16.....	LE677A-R2