

The Telkonet iWire System™

A revolutionary way to provide voice, video, and high-speed Internet access.

Today, the need for rapid and convenient access to information has never been more critical. Business customers expect and demand high-speed Internet access and data communication capabilities. Being able to offer broadband Internet access conveniently gives you a competitive advantage and helps you deliver services that build customer satisfaction.

The Telkonet iWire System uses proven, patented powerline communications (PLC) technology to transform a building's internal electrical wiring into an intelligent broadband networking platform. The system converts every power outlet in every room to a high-speed data network connection.

The Telkonet iWire System is quick to install and cost-effective, as buildings do not need to be rewired. Most importantly, data and high-speed Internet access is reliable and secure. The Telkonet iWire system works with any broadband signal, including DSL, T1, E1, cable and satellite.

Telkonet's iWire System is ideal for use in commercial applications, including:

- > Hotels and timeshare resorts
- > Multidwelling units, such as apartments, condominiums, and student housing
- > Government and military facilities
- > Schools and universities
- > Marinas
- > Digital signage

Telkonet iWire System Benefits

Low cost

Significantly less expensive than rewiring a building.

Rapid installation

Installation ranges from hours to days, without any construction or disruption.

Secure

Data is encrypted and secure from outside intrusion.

Scalable

Add users by simply purchasing more Telkonet iBridges™.

Convenient

Internet and data access at every electrical outlet.

Flexible

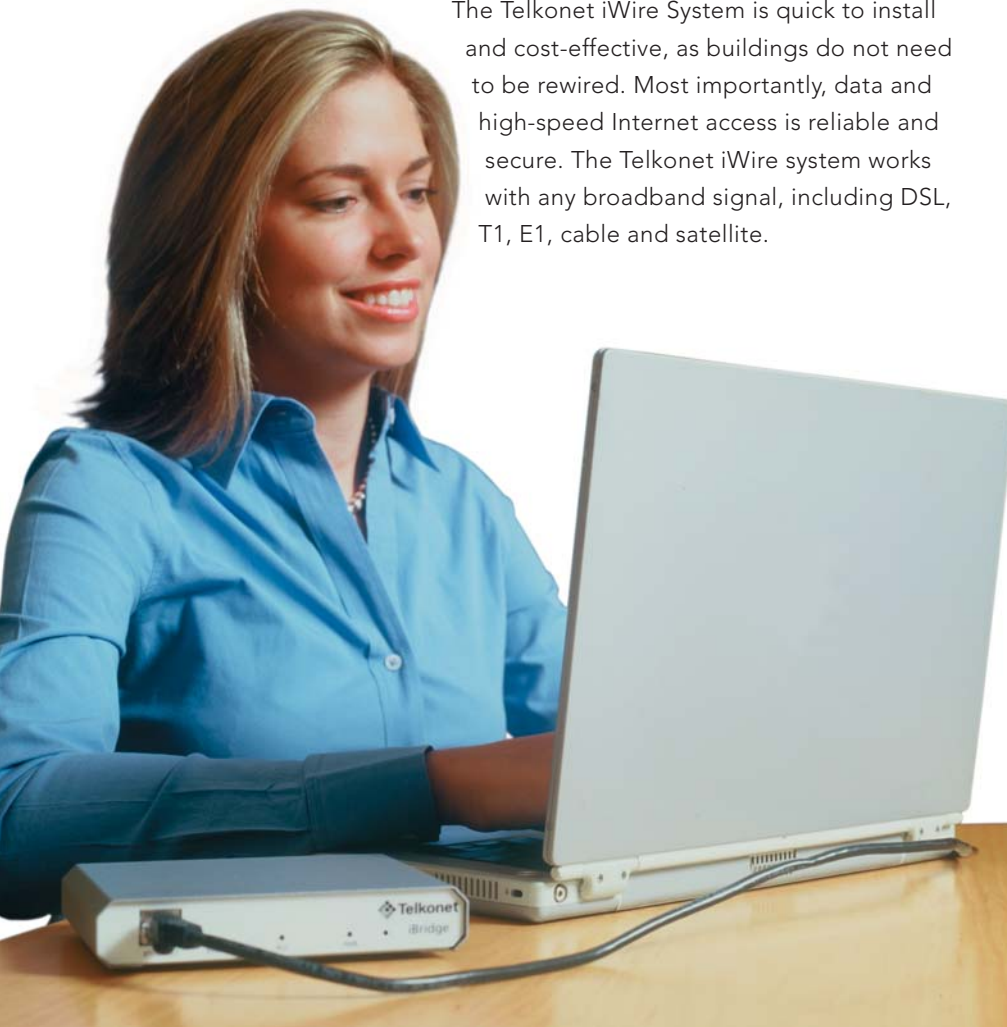
A platform that supports any device or application using standard Internet Protocol.

Robust

Remote monitoring and management capability.

Compliance

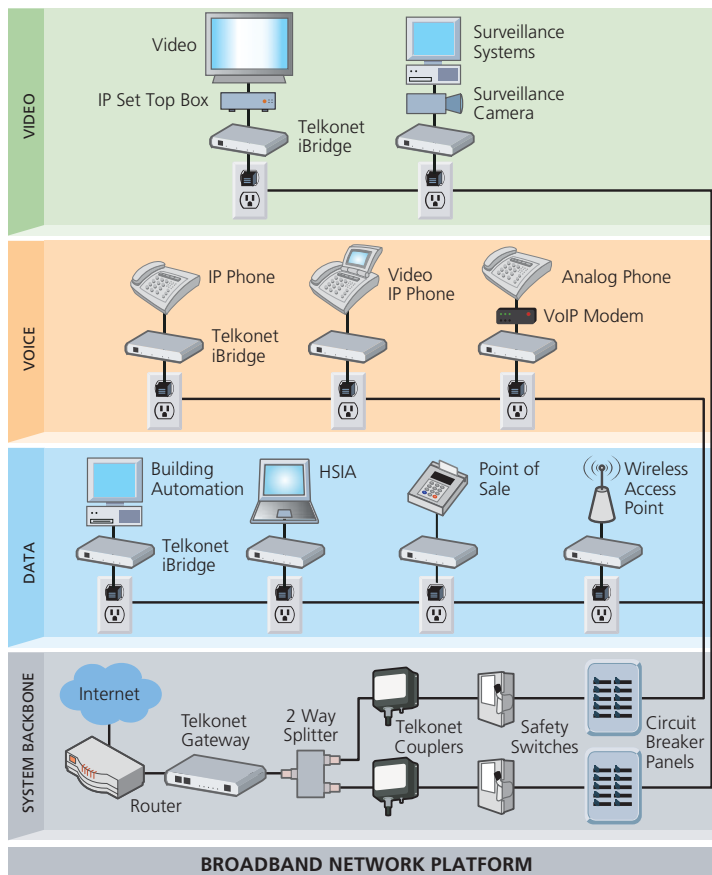
FCC Part 15, UL60950 Listed, and CE approval.



Convenient broadband access delivers a competitive advantage and helps build new services to build customer satisfaction.

An intelligent network that anticipates evolving technologies and applications.

The Telkonet iWire System provides an intelligent broadband networking platform, capable of supporting multiple data solutions, as well as voice and video, from every existing electrical outlet. Telkonet's robust networking platform protects your investment by providing for today's technologies and expands for future technologies and applications.



Telkonet's iWire System supports multiple applications from every electrical outlet.

The Telkonet iWire System can support a variety of applications, including, but not limited to:

- > Local area networking
- > High-speed Internet connectivity
- > Splash pages/disclaimers
- > Closed circuit surveillance and security
- > Digital signage
- > Two-way video conferencing
- > VoIP telephony
- > Point-of-sale systems
- > Energy and building management
- > Kiosk check-in systems

Using existing electrical wiring reduces installation time and costs.

Telkonet's iWire System is simple to install. Since Telkonet's system uses existing electrical wiring, minimal or no wiring is needed – a major benefit to older or historic buildings where the presence of asbestos may be a concern.

During the installation, there is no disruption to the everyday business activities of your hotel guests, tenants or office staff. An entire building can be Internet-ready within a few hours to a few days. Installation is cost-effective – an electrician is needed only for a couple of hours to install the Telkonet Coupler.

High-speed Internet access at every outlet offers convenience and flexibility.

With Telkonet's iWire System, users can access the Internet from virtually every power outlet in every room, including meeting rooms and public areas. Users simply plug Telkonet's iBridge into a power outlet and then connect the Telkonet iBridge Ethernet port to a computer or IP device, and they have network access.

Extending the network offers flexibility.

The Telkonet iWire System can be used in wireless deployments for Internet wireless hot spots in common areas or when it is not cost-effective or feasible to pull new cable for wireless access points (WAPs).

Proprietary technology delivers reliable and consistent performance.

Telkonet's system is designed to operate in commercial environments that experience electrical noise, unpredictable changes in line conditions, electrical load imbalances and other interference. Telkonet's technology incorporates a multicarrier modulation scheme, enabling data to shift from one carrier to another as real-time noise and line conditions change, so data transmission is uninterrupted. As a result, broadband access is continuous, reliable and seamless.

Encrypted data ensures secure transmission.

Telkonet's patent-pending Telkonet iBridge-to-Telkonet Gateway architecture ensures that Internet users cannot see other users on the network. Data in transit on the Powerline between the Telkonet iBridge and the Telkonet Gateway is encrypted with 56-bit Data Encryption Standard (DES). For government and other applications requiring high-level security, the system implements 256-bit Advanced Encryption Standard (AES) and is FIPS 140-2 compliant.

Remote network management saves time and response time.

The Telkonet Gateway provides remote network management and trouble shooting capabilities through SNMP, http or Telenet interface. The management interface enables remote monitoring of status, diagnostics, configuration and software upgrades.

Plug-and-play makes it simple to use.

Users will find the Telkonet iBridge easy to use. There are no drivers or additional software to install, and typically, computer laptop settings do not need to be changed.



Telkonet's iBridge plug-and-play concept makes it easy to use, while delivering reliable and consistent performance.

Telkonet's system is simple to install and quick to deploy. A property can have HSIA within a few days.

A Complete Broadband Delivery System

The Telkonet Gateway acts as a remotely manageable network switch which converts data between a 10/100 Ethernet port and a PLC interface. Each Telkonet Gateway supports up to 63 Telkonet eXtenders, 1,023 Telkonet iBridges and up to 4,096 Ethernet endpoints.

The Telkonet iBridge™ is an intelligent, single-port Ethernet-to-PLC device converting an AC outlet to a LAN drop, enabling a user to connect a computer or IP device to the PLC network.

The Telkonet Coupler injects the PLC signal from a Telkonet Gateway or Telkonet eXtender into a building's electrical wiring.

The Telkonet eXtender™ provides additional reach and scalability for networks that cannot be properly covered by a single Telkonet Gateway or multi-building environments.

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