

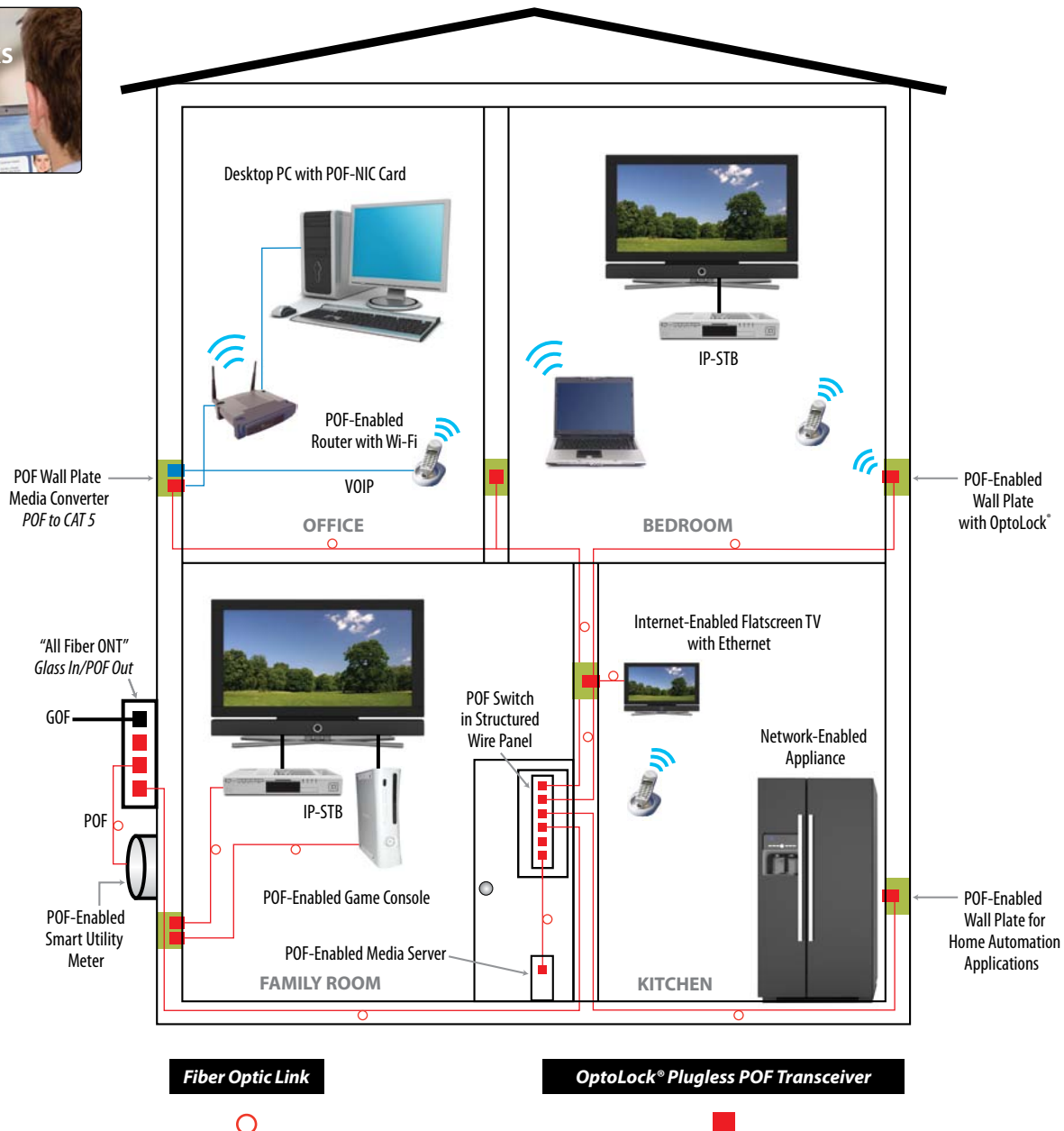
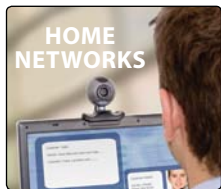
SOLUTIONS .

for **HOME NETWORKING**



High-Bandwidth Optical Solutions for Home Networking

Firecomms fiber optic solutions are ideal solutions for high-bandwidth triple play networks that require Ethernet data to be transmitted across the home network. Together with Plastic Optical Fiber (POF), Firecomms' fiber optic transceivers enable quicker, more flexible and cost-effective installations — unique advantage for home builders, installers, content providers, and consumers alike.



Anytime, Anywhere Connectivity

Today's home networks have grown in complexity well beyond the traditional modem-to-PC interconnection. The demands placed on the home network bring enormous challenges in enabling a fully connected network of devices and home automation services. When these needs are coupled with the explosive growth of wireless-enabled devices, the home network must provide seamless anytime, anywhere connectivity. Not only must it meet the increasingly complex demands of protecting user information and access, the home network also must be able to deliver high-bandwidth for actual or near real-time services such as live IPTV or on-line gaming.

The need to provide a host of these services across the whole home environment has seen the emergence of powerful wireless, coax or powerline based solutions. Unfortunately, such "media changing" technologies can fail to operate at full efficiency due to the various external interferences or construction obstacles. An alternative to these solutions is to install a future-proof Ethernet backbone network in the home or to utilize a wired link to install a service in those solutions where other solutions fail to deliver. Plastic Optical Fiber makes an ideal alternative to CAT 5/6 Ethernet cables for the home network in both retrofit and greenfield use cases.

Flexible Solutions from Firecomms

To ensure compatibility and versatility, Firecomms offers a range of devices in OptoLock® or LC packages:

- Ethernet Transceivers
(EDL300T family, 125 Mbps LC family)
125 Mbps, LVDS or LVPECL interface
- 250 Mbps Transceivers
(IDL300T family, 250 Mbps LC family)
For higher speed proprietary links

Because optical fiber is immune to electromagnetic interference it makes an ideal backbone or point-to-point link by the ability to co-locate the fiber alongside the electrical wires which are typically run to every area of the home. Backed by a variety of standards, the plastic fiber industry is implementing solutions to cover both Fast Ethernet and Gigabit connectivity across the same media.

Due to its large core size and material, plastic optical fiber differs from glass-based fibers in that it can be cut with a sharp blade without affecting optical performance. Firecomms pioneered the development of the OptoLock Ethernet transceiver, which instead of requiring the installer to attach a connector to the cable, simply allows the fiber to be inserted directly into the fiber optic port. Comparable to connecting speakers to a sound system, this combination of Plastic Optical Fiber and Firecomms' OptoLock connectorless transceiver enables 30 second terminations anytime and anywhere.

Firecomms offers a range of fiber optic transceivers in the connectorless OptoLock package and the IEC standardized LC termination for alternative socket and connector requirements.



OptoLock®



LC Connector



Fiber Optic Communications for Consumer Network Applications

Firecomms products with Plastic Optical Fiber (POF) links offer many advantages in high speed, consumer applications:

EMI/RFI immunity ideal for locating links alongside electrical cabling without interference

Galvanic isolation between transmitter and receiver to protect expensive equipment from lightning or electrical shocks

Visible spectrum operation enables eye-safe, connection detection and fast troubleshooting

Low power consumption, transceivers capable of operation at 250mW with power-down options to conserve network power when not in use

Durable, flexible and lightweight

Resilient to bending and vibrations

Reduced maintenance cycle time provides up to a 20-year lifecycle on transceivers and cables

Simplified field installation does not require expensive tools

Do-it-yourself termination with OptoLock cut-and-insert simplicity

Roadmap to Gigabit Ethernet over the same fiber

Firecomms is a global leader in the provision of fiber optic solutions and optical transceivers, skillfully combining state-of-the-art compound and silicon semiconductor technology with inventive small-scale integration. A global multinational company, Firecomms is jointly headquartered in Cork, Ireland and Tongxiang, China with additional facilities in the USA, Japan and Southeast Asia. Together with a far reaching network of representatives and distribution channels, Firecomms serves its global clients across a range of power and energy, industrial, transportation, medical and consumer markets.

Firecomms leverages its deep knowledge across our multi-disciplinary teams in developing the broadest range of fiber optic transmitters and receivers specifically suited to our target markets. With an emphasis on world class performance in reliability, Firecomms utilizes internally developed market leading Resonant

Cavity LED (RCLED) photonics with ultra low power CMOS drivers in our transmitters. Together with robust receiver IC architectures, Firecomms products enable ultra low power fiber optic links, from DC up to Gigabit data rates, to ensure extended lifetimes in the harshest of environments.

Ease of connectivity and installation in the field while maintaining robust, reliable interconnects across the industrial temperature range is at the forefront of Firecomms connectivity solutions. Our most popular product families are the patented OptoLock® for the quickest of terminations with bare Plastic Optical Fiber, the well recognized LC connector ratified by the IEC for use with POF and PCS cable assemblies, and our RedLink range of products, which are compatible with the universally known Versatile Link products from Avago Technologies.

Firecomms maximizes design freedom and production flexibility for customers through our Ireland based R&D Center of Excellence, with assembly at our world class production facility in Tongxiang, China. By maximizing the internal sources of ICs and photonics, coupled with internal production facilities, Firecomms maintains a highly competitive yet flexible supply chain to meet our customers' demanding needs.

With our long history in the fiber optic industry, Firecomms continues to meet and exceed the needs of our customers through our worldwide team of field application engineers who consistently provide local service and novel, innovative and price-conscious fiber optic solutions.

For details on Firecomms and our products, please visit our website at www.firecomms.com or contact us through any of our worldwide locations.



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