

interReach™ unison accel

brilliant performance. economical solution.



interReach™ unison accel

With the exploding numbers of wireless phones and data devices comes an insistence on crisp, clear signals — any time we want it, and any place we go. Too often, however, that demand cannot be met by an outdoor wireless network that was never intended to provide service within buildings. → That steady wireless signal that follows you on the road and across open spaces hits the wall when you walk inside. Steel, concrete, and other building materials block and bounce signals, creating poor or unpredictable reception. To the demanding user, it appears that wireless is unreliable. → If strong, stable wireless coverage reaches throughout the building, enterprises could use wireless applications to boost productivity and improve customer relations. E-mail, alerts, customer service applications, sales force automation and other productivity-enhancing applications could move with employees.

(Bringing the best down to size.

Without knowing it, thousands of people around the world rely on LGC Wireless' InterReach Unison in-building wireless systems to communicate within large structures such as airports, sports arenas, and corporate campuses. LGC Wireless developed Unison Accel to provide the same reliable performance as Unison, in a package ideal for buildings under 46,000 square meters (500,000 square feet). Accel seamlessly extends the public wireless network infrastructure by delivering clear signals and ample capacity to every corner of the building. Powerful, affordable, and remarkably easy to deploy, Accel brings world-class in-building coverage down to size.



*Easy-to-install
CAT-5 cabling can
extend up to 100 meters (328 feet)
from the Accel hub to the RAUs. With the optional
CAT-5 Extender, cabling can run up to 170 meters (557 feet).*

(more performance. reliable communication.

The key to Accel's performance is its ability to provide superior wireless coverage throughout a building, even in high-capacity situations with many mobile users on the network. It is able to do this because:

- ➔ High-output power broadcasts a strong, clear signal to wireless phones and PDAs.
- ➔ Low system noise enables sensitive reception of the "uplink" signal coming from the mobile device. This provides clearer communication and allows mobile devices to operate at a lower power level than if they were communicating directly through the walls to the outdoor network. Lower power levels mean that batteries last longer and handsets stay cooler.
- ➔ Automatic level control (ALC) prevents dropped calls and signal distortion. Without ALC, a feature unique to the Unison family, other in-building systems can suddenly shrink coverage when overwhelmed by unexpected outside signals.

(data requires stronger signals.

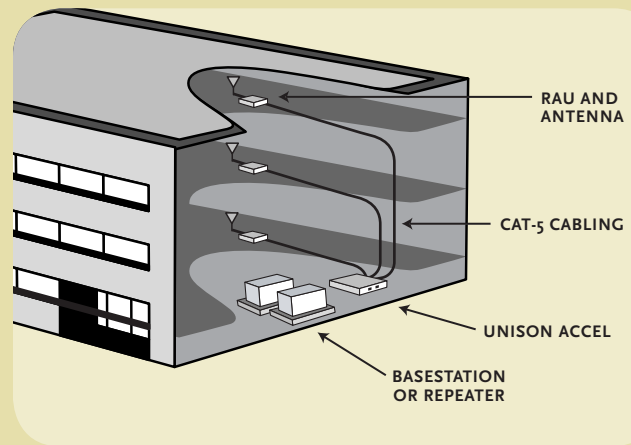
While all agree that data is the bright star on the wireless horizon, making data delivery practical isn't easy. Data applications, such as e-mail, require significantly greater signal throughput. One mobile data call can use as much capacity as 10 voice calls, which can reduce the coverage of an inadequate in-building system so that callers cannot get a signal. In addition, redialing a voice call is easy, but re-establishing a dropped data connection is not. With Accel, users can rely on their wireless data applications.

(easy on the budget.

Architectural simplicity and CAT-5 cabling deliver a total installed Accel solution that is often priced less than comparable coaxial-based systems. The Accel system's straightforward architecture utilizes a single hub connected to up to eight Remote Access Units (RAUs) distributed inside a building. Accel is the only in-building wireless system that exclusively uses standard CAT-5 cabling between the hub and the RAUs. Light and flexible, CAT-5 twisted-pair wire makes design and installation easy and allows you to move and reconfigure the system as needed.

(802.11 installation synergy.

Because it uses standard LAN cabling, wiring closets, and rack mounting, Accel mirrors the industry-standard 802.11 Wireless LAN architecture. The parallel design makes it easy and affordable for



enterprises to install Accel and WLAN at the same time. To facilitate this synergy, LGC Wireless offers WLAN services, drawing from extensive understanding and experience in radio-frequency (RF) technology to guarantee a well-designed system.

(maintaining a watchful eye.

The industry-recognized reliability of the InterReach Unison name carries forth in the Accel product design. To ensure always-on operation, the system actively monitors all components from the hub to the RAUs and can send warnings and alarms via contact closures, the LGC AdminManager software, or SNMP traps. In addition to remote troubleshooting capabilities, AdminManager provides an easy-to-use graphical interface for installation and system configuration and optimization. Complementing the product capabilities is a suite of post-installation services offered by LGC, such as remote monitoring and onsite support.

(protocol and frequency versatility.

Software configuration enables an Accel system to support any of the following protocols and frequencies:

- ➔ 800 MHz AMPS, TDMA, CDMA2000, iDEN, W-CDMA, GSM, EDGE
- ➔ 900 MHz GSM, Paging, EDGE, iDEN
- ➔ 1800 MHz, GSM, CDMA2000, EDGE
- ➔ 1900 MHz CDMA2000, TDMA, GSM, W-CDMA, EDGE
- ➔ 2100 MHz W-CDMA

The system is compliant with key data standards such as GPRS/EDGE and CDMA2000 1xRTT and has been designed to flexibly accommodate future wireless technology needs. The InterReach Unison family has FCC, UL, and CE approvals and is deployed by all major wireless operators around the world.

(LGC wireless. one name. everything you need.

When you purchase an Accel system, you receive LGC Wireless' comprehensive understanding of wireless radio frequency technology, system design, and installation, all guaranteed to meet your requirements for capacity and coverage. As the leading specialist in wireless in-building systems, LGC Wireless has designed and installed thousands of complex wireless systems, bringing wireless coverage to some of the world's most architecturally challenging buildings. LGC Wireless is ISO 9001 and 14001 certified, ensuring that our quality management and environmental systems comply with international standards of excellence.

