

Wilson Electronics

Antenna Solutions to Increase Cellular Coverage and Improve Data Throughput

Wilson Electronics has been a leader in the wireless communications industry for nearly 40 years. The company designs and manufactures amplifiers, antennas and related components that significantly improve cellular telephone signal reception and transmission in a wide variety of applications, both mobile and in-building. Their products allow Multi-Tech cellular wireless modems to expand their coverage and take full advantage of the available signal.

“Wilson Electronics amplifiers and antennas significantly increase cellular coverage and improve data throughput,” explains Lee Stack, Business Development Sales Representative for Wilson Electronics. “For example, if a Multi-Tech modem with a capacity of 100 kilobits is communicating at a rate of only 50 kilobits due to poor signal, a Wilson amplifier/antenna system can boost the signal and enable communication at the full 100 kilobit rate. If the amplifier and antenna are properly installed, location of the modem becomes a non-issue.”

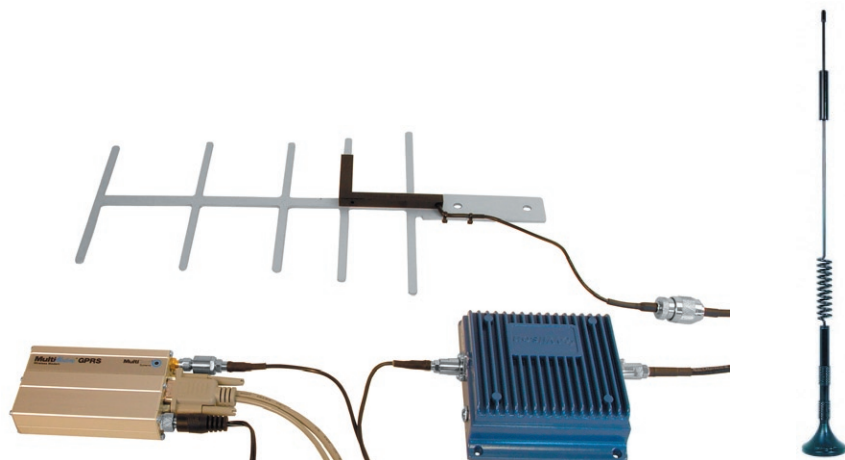
All Wilson Electronics products are engineered and assembled in the company’s 50,000-square-foot headquarters in St. George, Utah. The company’s engineering team uses a state-of-the-art testing laboratory, including anechoic chambers and network analyzers, to fine-tune antenna designs and performance. For its amplifiers, Wilson uses double electrically insulated RF enclosures and cell site simulators for compliance testing.

“The versatility of Multi-Tech cellular wireless modems is matched by Wilson Electronics amplifiers and antennas,” said Stack. “Wilson offers single and dual-band amplifiers that work on all generations of CDMA, TDMA and GSM technologies (850/1900 or 900/1800 MHz GSM/GPRS) for both mobile and in-building installations. With a Wilson amplifier/antenna system, users can make calls and receive/send data in places they never could before.”

Multi-Tech and Wilson Electronics

Solution Benefits:

- Broader frequency ranges
- Voice and data signal quality improvement
- Reduction of dropped calls and noise



“ Wilson Electronics amplifiers and antennas significantly increase cellular coverage and improve data throughput. ”

- Lee Stack, Business Development Sales Representative for Wilson Electronics

Multi-Tech External Wireless Modems

MultiModem® wireless modems offer standards-based multi-band EDGE, GPRS or CDMA performance. These ready-to-deploy, standalone modems provide wireless data communication and integrate seamlessly with virtually any application. MultiModem wireless modems are based on industry-standard open interfaces and can be desktop or panel mounted.

Features:

- EDGE (E-GPRS) Class 10, GPRS Class 10 or CDMA2000 1xRTT
- Short Message Services (SMS) support
- RS-232, USB, Bluetooth® and Ethernet interfaces
- AT command compatible
- Carrier approved

Multi-Tech Embedded Wireless Modems

Multi-Tech's SocketModem® line of embedded wireless modems are ideal for developers looking to add wireless communications capabilities with a minimum of development time and expense.

Features:

- EDGE (E-GPRS) Class 10, GPRS Class 10 or CDMA2000 1xRTT
- Short Message Services (SMS) support
- Universal Socket Connectivity
- AT command compatible
- Carrier approved

Wilson Electronics Amplifiers and Antennas

Wilson Electronics' amplifiers include single- and dual-band, direct-connection and wireless units that cover the full range of technologies, including CDMA (1XRTT, EVDO), GSM (EDGE, GPRS, 3G, HSDPA) and iDEN. All Wilson amplifiers feature technology that enables them to automatically adjust their power based on cell site requirements. Wilson's Smart Technology™, higher receiver sensitivity and greater noise reduction result in superior data throughput and more consistent connections. Wilson also manufactures a wide variety of antenna models for interior, exterior, mobile and marine applications.

General features and benefits:

- Voice and data signal quality improvement
- Significant reduction of dropped calls and noise
- 800/1900 MHz - single and dual-band models available
- Improvement of data communication rates needed for 3G technologies
- Mobile, marine and in-building applications
- Ease of installation

Amplifier-specific features and benefits (depending on model):

- Power control logic to ensure maximum output power is within cellular network standards
- Automatic gain control
- Automatic oscillation and overload protection

Antenna-specific features and benefits:

- No power required
- Wide range of interior and exterior, mobile and marine models
- Mobile antennas include magnet, glass and NMO mounts
- Building antennas include Yagi, dome and panel designs

About Wilson Electronics

For nearly 40 years, Wilson Electronics has been a leader in the wireless communications industry. Their amplifiers, antennas and related components significantly improve cellular telephone signal reception and transmission. The engineering team uses a state-of-the-art testing laboratory to fine tune designs and performance. All products are assembled in the company's U.S. based headquarters facility.



For more information contact Lee Stack with Wilson Electronics at:
800-204-4104 x185 or
435-673-5021 x185
lee@wilsonelectronics.com
www.wilsonelectronics.com

About Multi-Tech

Multi-Tech Systems is an ISO 9001:2000 certified global manufacturer of award-winning telephony, Internet, remote access, and device networking products that connect voice and data over IP networks. With a long history inventing products known for their reliability and performance, Multi-Tech still employs the same mission from which the company was founded: to provide quality solutions that solve real business problems.

Note: All Wilson Electronics products are designed with FME-Female connectors. Wilson carries a full line of connectors to adapt to a wide range of products, including all of the Multi-Tech devices.