

Wireless V.90 Modem Kit

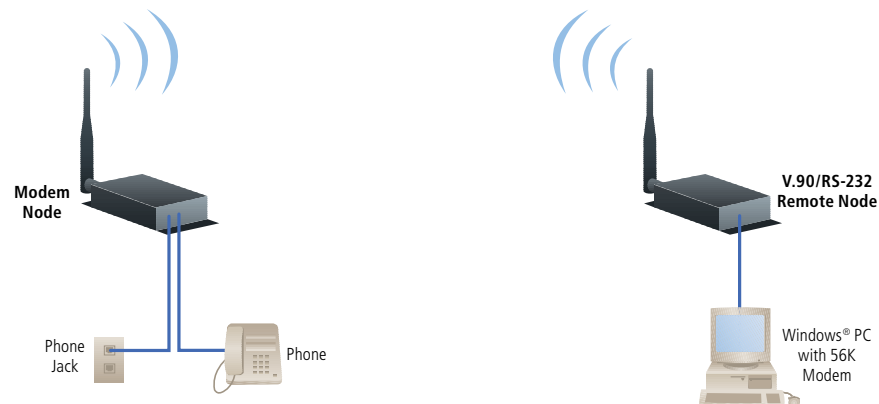
Take advantage of long-range, wireless, 56-kbps connections to the Internet.



FEATURES

- » Maximum indoor range of 500 feet (152.4 m).
- » Maximum outdoor or line-of-sight range of 10,000 feet (3048 m)!
- » Reliable communications up to 56 kbps.
- » Great for a host of applications.
- » Uses Frequency-Hopping Spread Spectrum (FHSS) technology.
- » Order a Remote Node for an additional wireless connection.

Put extra distance—up to 10,000 feet—between a PC and your phone jack.



OVERVIEW

If you want to connect to the Internet but your phone jack is too far from your workstation, our [Wireless V.90 Modem Kit](#) is the perfect solution.

The wireless modem provides a wireless point-to-point link between an RS-232 device and your 56K modem installed in an IBM® compatible PC running a Windows® OS.

With the kit, you get a Wireless V.90/RS-232 Remote Node (MDR221A), which enables local wireless data transmissions, and a telecom modem node, which bridges the local wireless link to a telecom system for longer-range communication.

You just connect the modem node to your phone jack and the remote node to your PC's DB9 port (a serial cable is included). You then communicate wirelessly between nodes at up to 500 feet (152.4 m) indoors. For outdoors or line-of-sight communications, the kit has a range of 10,000 feet (3048 m).

The modem node has two standard RJ-11 jacks, one for connecting the phone line and one for plugging in the phone itself (an RJ-11 cable is included). An autoanswer feature enables the modem to answer incoming calls over the phone line automatically.

The modem kit operates in the unlicensed 902 to 928 MHz ISM band using Frequency-Hopping Spread Spectrum (FHSS) transceivers and can be used in the U.S. and Canada (meeting FCC approval) without requiring further certification.

Because it uses FHSS technology, the [Wireless V.90 Modem Kit](#) offers reliable communications in areas with a lot of electrical interference and in environments typically hostile to RF signals. It transmits around corners, through walls and other obstructions—so there's no need to drill any holes or conceal any cables, as you would in a complicated wired setup.

Plus, it's secure. A proprietary protocol ensures the privacy of your data transmissions. And because the [Wireless V.90 Modem](#) has an industrial-grade design, you can use it in areas subject to temperature extremes.

The [Wireless V.90 Modem](#) suits both stationary and mobile communication setups and installs in minutes. Once set up, LEDs on the units indicate status and operation. A red PWR indicator informs you that they're receiving power and a green Link LED indicates that the units are in range of one another. Rx and Tx LEDs indicate the receiving and sending of data between the [Wireless V.90 Modem](#) nodes.

Typical Applications

By going wireless, you bring a whole new level of flexibility to your commercial or business Internet access applications. Ideal for enabling dialup Web networking from remote areas where phone connections aren't easily accessible, the wireless modem kit suits new, retrofit, and even temporary deployment.

Use it, for instance, where retail kiosks, point of purchase (PoP) displays, or ATMs don't have convenient local access to telecom connections. Or check on the status of vending machines' merchandise or money without leaving your workstation.

It's also great for campus-wide wireless connections. And in the SOHO environment, you can use the [Wireless V.90 Modem](#) as a gateway to wirelessly connect your Internet appliances to unobtrusive phone jacks.

For mobile Internet users, the wireless modem enables easy links between devices such as e-mail terminals and Web cafe PCs without the expense and hassle of wiring new phone lines and jacks.



MDR220A-R2-R2

Technically Speaking

FHSS communication.

Frequency-Hopping Spread Spectrum communication provides error-free wireless transmission, top security, and high levels of throughput over the license-free radio band. Many other radio bands require an FCC site license, and a lot of radio modems on the market are based on technologies that don't work in interference-prone applications or extreme temperatures.

Spread Spectrum wireless modems, including Black Box's Wireless V.90 Modem, are designed to endure the extremes and still provide the performance you'd expect from a hard-wired modem operating under optimal conditions without the cost and time needed to obtain an FCC license.

The key to this outstanding performance is a frequency-hopping transceiver. Narrow-band frequency hoppers use a predefined algorithm to maintain synchronization and high throughput between master and remote modems. They achieve this by continually switching, or "hopping," from one transmission frequency to another throughout the Spread Spectrum band.

The sequence of frequencies is very difficult to predict and thus nearly impossible to eavesdrop on or jam. If interference is encountered at any particular frequency, the built-in error correction detects it and resends the data packet at the next frequency hop.

TECH SPECS

Data Rate (Maximum) — Modem node: 56 kbps;
Wireless V.90/RS-232 Remote Node: 115.2 kbps
Operating Humidity — 10 to 90% noncondensing
Operating Temperature — -40 to 176 °F (-40 to +80 °C)
Radio Specifications — 902 to 908 MHz in the unlicensed ISM band using Frequency-Hopping Spread Spectrum (FHSS) transceivers
Range (Maximum) — Indoor: 500 ft. (152.4 m);
Outdoor: 10,000 ft. (3048 m)
Connectors — Modem node: (2) RJ-11;
Wireless V.90/RS-232 Remote Node: (1) DB9 F (RS-232)
Indicators — Each node: (1) Power; (1) Link; (1) Rx; (1) Tx
Power — 120 VAC, 60 Hz (external) or 6 VDC, 800 mA (not included)
Size — Each node: 1.4"H x 4.4"W x 2.7"D (3.6 x 11.2 x 6.9 cm)
Weight — Each node: 0.4 lb. (0.2 kg)

What's included

- ◆ Modem node
- ◆ Wireless V.90/RS-232 Remote Node (MDR221A)
- ◆ (2) AC power supplies each with 6-ft. cord
- ◆ 5-ft. RJ-11 phone cable
- ◆ 5-ft. DB9 cable
- ◆ User manual

Item

Wireless V.90 Modem Kit

Code

MDR220A-R2