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# SPECIAL REPORT

# Accessories



# Bedazzling Bluetooth Breakthroughs

Innovative wireless accessories expand the capabilities of Windows Mobile

by Mike Riley

**W**ith the continued proliferation of the Windows Mobile platform and its emphasis on wireless connectivity, it's no surprise that we're seeing more and more wireless accessories introduced. In addition to phone capabilities, there are three wireless technologies used in Windows Mobile devices: infrared, Wi-Fi, and Bluetooth.

Almost all Windows Mobile devices have an infrared port, which allows you to beam contact information and other files to another device. In addition, more devices now have Wi-Fi technology, which lets them connect to the Internet via Wi-Fi hotspots. If the device does not have Wi-Fi, it can usually be added via an SD or miniSD Wi-Fi card.

The third technology is Bluetooth, which is nearly ubiquitous on Windows Mobile devices. It's similar to Wi-Fi, but has a slower data rate (1 Mbps) and range (about 10 meters or 30 feet).

Its big advantage is that it consumes less power than Wi-Fi. Because of its range and power consumption, it's the technology of choice for wireless accessories.

Rather than provide a comprehensive

buyer's guide of every compatible Bluetooth accessory, this article examines a selection of the more innovative ones out there; the accessories designed to extend the Windows Mobile experience.

## Portable keyboards

Wireless input accessories help you enter data into your device and control it. They generally fall into three classifications: keyboards, mice/tablets, and joystick/game controllers. Of these, only the keyboard category makes sense for the Windows Mobile platform. The stylus/touch screen technology found on Pocket PCs eliminates the need for a mouse, and the game controller market (as it relates to Windows Mobile devices) is small and not economically viable.

However, anyone who has used a Windows Mobile device has experienced the pain associated with pecking out a short e-mail or document. Devices with QWERTY thumb keyboards make these tasks easier, but it's still slow going.

The obvious solution to this problem is a small, portable keyboard. The earliest versions of these products physically connected to the device via cable or docking port. The problem was that you needed a different version of the cable or port for each device. Wireless keyboards

were introduced using infrared technology, but these were limited by IR's line-of-sight nature and mobile device manufacturers didn't always put the IR port in the same place.

The iGo Stowaway Ultra-Slim Bluetooth Keyboard (now discontinued) offers a more traditional-style computer keyboard and folds down into a manageably sized accessory.



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Bluetooth portable keyboards solved both of these problems. It is not a line-of-sight technology, and its 10 meter range was more than sufficient for keyboards. And because Bluetooth is wireless, it eliminated the need for a proprietary cable or cradle. This article looks at three Bluetooth keyboard solutions:

## Freedom Mini Duo Keyboard

£39.99: [freedominput.com](http://freedominput.com)

The Mini Duo is an ultra-compact keyboard that folds up into a case the size of a thick credit card. The 3 ounce (83 gram) 62-key device contains a rechargeable battery supplying 9 hours of continuous operation. However, to keep the keyboard as small and lightweight as possible, the designers have opted for a membrane keyboard design, requiring more pressure to register a key press. The keys are also so tightly packed together that it may make touch typing a challenge. Of course, the advantage to this constraint is the extremely portable, lightweight design that the Freedom Mini Duo keyboard has to offer.

## The iGo Stowaway Ultra-Slim Bluetooth Keyboard (discontinued)

Available at [expansys-usa.com](http://expansys-usa.com)

The iGo Stowaway Ultra-Slim Bluetooth Keyboard provides users with the closest tactile experience to a traditional full-sized computer keyboard than any other portable/collapsible wireless keyboard on the market. The iGo Stowaway is tailored to the mobile professional who prefers to travel light but needs to write and respond to megabytes of e-mail in a timely fashion. While it requires a larger, flat surface to use, the combination of the Stowaway and a high-powered Windows Mobile device might adequately displace the need to carry a laptop. However, at \$149.95, the Stowaway is also one of the most expensive portable Bluetooth-enabled keyboards on the market today.

## Fabric Keyboard

[g-techworld.com](http://g-techworld.com), [mobis.com.tw/products.htm](http://mobis.com.tw/products.htm)  
\$136.95: [expansys-usa.com](http://expansys-usa.com)

For those seeking the largest keyboard with the lightest weight and hassle free portability, Mobis Technology offers their Wireless Fabric Keyboard. This 63-key nylon-based input device literally rolls up like a hand towel for easy portability and rolls out to a full 1 foot by 4.5" QWERTY keypad. Like the iGo Stowaway, the Wireless Fabric Keyboard offers up to 10 hours of operation and is powered by 2 AAA batteries. This means active users will need to pack an extra set of batteries for extended periods of typing. Also, it will take a little time to get used

to the sensation of typing on fabric keys, and it might not appeal to those wishing for keys with more spring in them. However, the keyboard is water resistant and you don't have to worry much about spilt coffee, food crumbs clogging up the keys. It might be just the thing for traveling within the tight confines of planes, trains and buses.

## Headsets, earpieces, and speakers

Headsets and earpieces that both transmit and receive data are the most common and useful Bluetooth accessories. Mobile professionals are constantly multitasking between incoming/outgoing calls while driving or walking through airports. They're tired of tangled wires and crimped necks, and these Bluetooth accessories do away with that. Bluetooth headsets have also become fashion statements, like an attractive piece of jewelry. Many are sleek, futuristic looking devices, while others are so small you hardly notice them. This has led some communication futurists to speculate that it's only a matter of time before they disappear entirely, hidden within the ear canal itself.



The Freedom Mini Duo Keyboard, when folded, is about a quarter inch thick and slightly larger than a credit card.



Wireless Fabric Keyboard is quite literally one of the most flexible Bluetooth-enabled keyboards available today.

Each of us can recollect the first time we encountered a person using a hands-free headset, perhaps thinking they were talking to themselves or had lost their minds. Many of us can also remember the first time we used one of these devices and experienced the feeling of liberation and mobility a hands-free headset provides. Originally, these headsets had a bothersome cable connecting them to the phone, but Bluetooth has eliminated this. Once you've experienced the freedom of a Bluetooth-enabled headset, it's nearly impossible to revert back to old fashioned wired or, perish the thought, handheld designs.

The Bluetooth headset market is extensive and a few major manufacturers dominate the market. But it still welcomes and rewards innovative designs that are smaller, have improved sound quality, better battery life, and increased range. The headsets highlighted in this article represent some of the most innovative solutions available today.

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The Jabra BT350 Bluetooth Headset sports both high-quality form and function in an attractively contoured design.

## Jabra BT350

\$79: [Jabra.com](http://Jabra.com)

Jabra's impressive line of Bluetooth headsets offers a range of options, and their Jabra BT350 model demonstrates that you can offer a high-quality product at an affordable price. It offers a decent 7 hours of talk-time and 200 hours of standby operation. I was most impressed by its sound quality. Small, single ear

Bluetooth headsets tend to sound crackly and tinny, especially during music playback. (These devices were optimized for voice, not music after all.) Compared to the other single earpiece headsets in this article, the BT350 provided the best overall sound quality.

## Cardo Scala 700 Bluetooth Headset

\$69.99: [cardowireless.com](http://cardowireless.com)

The size of a device limits the size (and capacity) of the battery that powers it. A good compromise between the two is the Cardo Scala 700 Bluetooth Headset. Slightly smaller than the Jabra BT350, Cardo's Scala 700 model supplies 10 hours of talk time and up to 240 hours of standby power. It also fits comfortably in your ear and supplies decent quality audio and easy operation. For the discerning consumer seeking a balance between size and long battery life, the Scala 700 is a good choice.

## Gennum nX6000

\$129.99: [nxzen.com](http://nxzen.com)

One of the smallest, most lightweight headsets I tested was the Gennum nX6000 Bluetooth headset. Not much larger than a guitar pick and barely thicker than a pack of gum, it's easy to forget you're even wearing this amazingly compact gadget. What's also remarkably innovative about the Gennum nX6000 is its

The Plantronics Pulsar 590A Bluetooth Stereo Headset supplies high quality stereo audio wirelessly to devices supporting the Bluetooth Advanced Audio Distribution Profile.



dual microphone designed to reduce ambient noise. Of all the headsets I tested in a noisy environment, the nX6000 produced the best results. However, the audio output was occasionally scratchy and the device only gets about 6 hours of talk time. Nevertheless, for those seeking one of the smallest, most inconspicuous Bluetooth headset with excellent voice broadcast capabilities, the Gennum represents compact technology innovation at its finest.

## Plantronics Pulsar 590A Bluetooth Stereo Headset

\$249.95 (street price about half that):

[plantronics.com](http://plantronics.com)

Plantronics is a well-known mobile headset brand that supplies several Bluetooth models. Their Pulsar 590A Bluetooth Stereo Headset represents a top-of-the-line stereo headset experience and the \$250 SRP reflects the pedigree of its state-of-the-art Bluetooth technology. The Pulsar supplies up to 10 hours of continuous operation and a telescoping microphone for improved voice transmission quality. It collapses into a compact travel case that can also hold the included USB charger for recharging the headset's built-in battery. For those fortunate owners of advanced Windows Mobile devices that support the recent Bluetooth Advanced Audio Distribution Profile (A2DP), high-quality stereo sound can



The Cardo Scala 700 Bluetooth Headset delivers up to 10 hours talk time and an impressive 240 hours standby power.



The Gennum nX6000 Delivers amazing voice transmission quality packaged in one of the smallest Bluetooth ear piece designs available today.

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be listened to wirelessly. A universal adapter that plugs into a standard mini-headphone jack is also included for those devices lacking this new protocol. For the person seeking the ultimate Bluetooth audio experience, the Plantronics 590A headset is an outstanding piece of technology.

## Jabra BT620 Bluetooth Headphones

\$129: [Jabra.com](http://Jabra.com)

Jabra offers a less expensive stereo headset with fewer features than the Pulsar 590A. The Jabra BT620 not only offers quality stereo sound, it can operate continuously for up to 14 hours on a fully-charged battery. In addition, it has the ability to work with two Bluetooth devices at the same time; for example, a phone for communicating and a Bluetooth-enabled PC for listening to music. While I preferred the design of the Plantronics stereo headset, both it and the BT620 provided acceptable performance.



Jabra's BT620s Bluetooth Headphones deliver advanced Bluetooth technology at a relatively affordable price.

## Mobis Bluetune Stereo Speaker

\$89.95: [expansys-usa.com](http://expansys-usa.com)

For those seeking a decent Bluetooth stereo experience without having to wear a headset, Mobis offers the Bluetune Stereo Speaker. Ideally suited to attach to a car's visor, the speaker delivers adequate sound quality and reception at a reasonable cost. While the audio quality and volume are limited by the compact size of the speakers, it's one of the few solutions that doesn't require a headset covering your ears. That is particularly important while driving. The product works as advertised, but I did notice a fluctuation in the playback volume as softer portions of music and spoken word were dampened by the device's auto gain. It wasn't too distracting but definitely noticeable.



## Only the beginning...

The products featured in this article represent the current state of the art and give you an idea of where the industry is heading. Bluetooth accessories will continue to get smaller, battery life will increase, audio quality will improve, feature sets will expand, and style will reign supreme. In addition, the compatibility issues associated with the different Bluetooth "stacks" will be solved and the technology will be integrated into more and more devices, from cars and computers to refrigerators and running shoes.

The future of Bluetooth is exciting. I can't wait to see what the landscape looks like a year from now! ■

## GET MORE FROM WINDOWS MOBILE

# Some of My Favorite Things

by Dan Hanttula

**W**indows Mobile accessories are like the catalogs you receive during the holiday shopping season; there are so many of them that it can be almost impossible to separate the good from the bad. We're going to help you out by looking at a few of the most useful accessories and uncovering their important benefits. We'll also discuss some of the ways you can "get more" out of each accessory.

### Protect your new screen or give new life to an old one

One of the first things I suggest adding to a new Windows Mobile device is a protective screen cover. These flexible and thin sheets of clear plastic have been around for more than a decade and adhere to the screen to provide a thin layer of anti-scratch coating. However, I've always been disappointed by the bubbles that can appear under the plastic sheet if you're not careful when you apply it. I've also found that some of these products have a "resistive" surface that makes writing or drawing with the stylus an unpleasant experience.

Earlier this year, I purchased a ClearTouch Crystal screen protector (Fig. 1) from the Boxwave Corporation ([boxwave.com](http://boxwave.com)). The company boasts that the ClearTouch Crystal is for users that demand "the ultimate in uninhibited clarity." Unlike most soft and flexible screen protectors, the Crystal has a firm, glass-like surface and is incredibly easy to apply.

Because the ClearTouch is not as "soft" as other screen protector films, it lasts longer, even with heavy stylus use. This also makes the surface great to write on, because there's even less resistance than on the actual touch screen. Your stylus will glide over the surface, and the company even claims it

improves handwriting recognition. The surface is also

more resistant to fingerprints than the Windows Mobile touch screen, so even those who choose to forego the stylus will still find the ClearTouch to be a valuable ally.

The ClearTouch screen protector is available in "Crystal" (which they claim provides 99% visibility) and Anti-glare versions, starting at \$6.95 for a single protector (the ClearTouch for my T-Mobile MDA was \$12.95). The package includes a screen cleaning cloth and a plastic applicator tool to help remove the bubbles that appear during installation.

### GET MORE...

If you have been using your device without screen protection and have some minor scratches, installing the ClearTouch Crystal on your device's touch screen can help make it look like new. The screen protection will provide a new, smooth surface for you to glide the stylus on and keep slight damage that may have already been done from becoming worse.

### Cradle your device to tidy up your desk

Having a cradle to place your Windows Mobile device in is a wonderful thing (Fig. 2). It not only protects your device, but also provides a better viewing angle to see the screen while you're sitting at your desk, while at the same time recharging the battery. Additionally, for people with other mobile devices (MP3 players, GPS receivers, other PDAs), it does away with the frustrating search for the right connectivity cable. Unfortunately, most Windows Mobile devices no longer ship with a cradle. Instead, you get a cable that provides the same functions. Sometimes, the device's manufacturer will offer optional cradles, but these can be expensive.

Dan Hanttula has covered the handheld market for more than a decade, lecturing at PDA conferences, vertical market trade associations, and appearing on popular television series like TechTV's Screen Savers show. He created an entire curriculum of Pocket PC training classes for the Moore-Norman Technology Center and has published hundreds of articles including guest pieces for ZDTV, CNET, Microsoft, Leo Laporte's 2003 Technology Almanac, and other print media and online news sources. His Web site ([www.SemperAptus.com](http://www.SemperAptus.com)) is designed to promote Internet-connected devices, and has become a popular resource for Pocket PC users and gadget lovers alike. In March 2001, he published his first book, the Official Hewlett-Packard Pocket PC Handbook by IDG Books. He can be reached via e-mail at [danh@semperaptus.com](mailto:danh@semperaptus.com).



Fig. 1: The Boxwave ClearTouch Crystal screen protector offers superior screen readability with a smooth, fingerprint-resistant surface.



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Fortunately, Boxwave Corporation ([boxwave.com](http://boxwave.com)) offers its Desktop Cradle for a wide variety of Windows Mobile devices, starting at \$27.95. My favorite feature of the Boxwave cradle is that it includes an A/C adapter and USB cable, which means your Windows Mobile device can recharge even while your PC is turned off. And, because this unit comes with all of the required cables, you can throw your original USB cable into your suitcase so it's always available when you're on the road.

Fig. 2: The Boxwave cradle holds your device in an upright position and also allows you to charge the unit using its A/C power adapter while your PC is turned off.



Fig. 3: DockWare is available for PPC and Smartphone.

## GET MORE...

For an extra bonus, download Dockware, a free application from Iliumsoft ([iliumsoft.com](http://iliumsoft.com)). Whenever you insert your Pocket PC or Smartphone into a cradle, Dockware takes over your device's screen and displays a slideshow of the digital images you have stored on your device and superimposes a calendar and clock over the photos (Fig. 3). DockWare turns a cradled device into an impressive looking digital clock and calendar that can replace those old and dusty desk calendars and clocks.

## Organize your traveling mobile lifestyle

Now that we've cleaned up your desk, let's take a look at some items that can make traveling easier. I've become a huge fan of retractable cables. I own retractable earphones for my Zune, a retractable Ethernet cable for my laptop, and retractable sync cables for my Pocket PC. But I recently found the ultimate all-in-one sync and charging system: the JAVOedge Meta Charger Bundle ([javoedge.com](http://javoedge.com)).

The bundle includes a retractable USB cable for your specific device and an A/C and D/C outlet plug. With this solution, you don't have to bring a separate USB cable, car charger and wall charger with you when you travel. The wall plug prongs fold into the device to protect them during travel and the cigarette

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lighter adapter has a removable plastic cover to protect it. The Meta Charger even features built-in surge protection and automatically adapts to the available voltage (100-240 volts). An optional \$3.25 UK adapter plugs into the Meta Charger so you can power up in England.

The JAVOedge Meta Charger Bundle (Fig. 4) (for many, but not all, devices) is available for approximately \$25 from JavoEdge. Go to the Web site and do a Quick Search on your brand and model to see if it's available.



Fig. 4: The JAVOedge Meta Charger Bundle (US) includes everything you need to keep your WM device powered up no matter where you are.

## GET MORE...

Many airlines offer 12v DC power outlets in specific rows. When you call to make a reservation, be sure to request a seat with the DC outlet so that you can use your power adapter. You can also check your airline's Web site for more information on in-flight power outlets usage and restrictions.

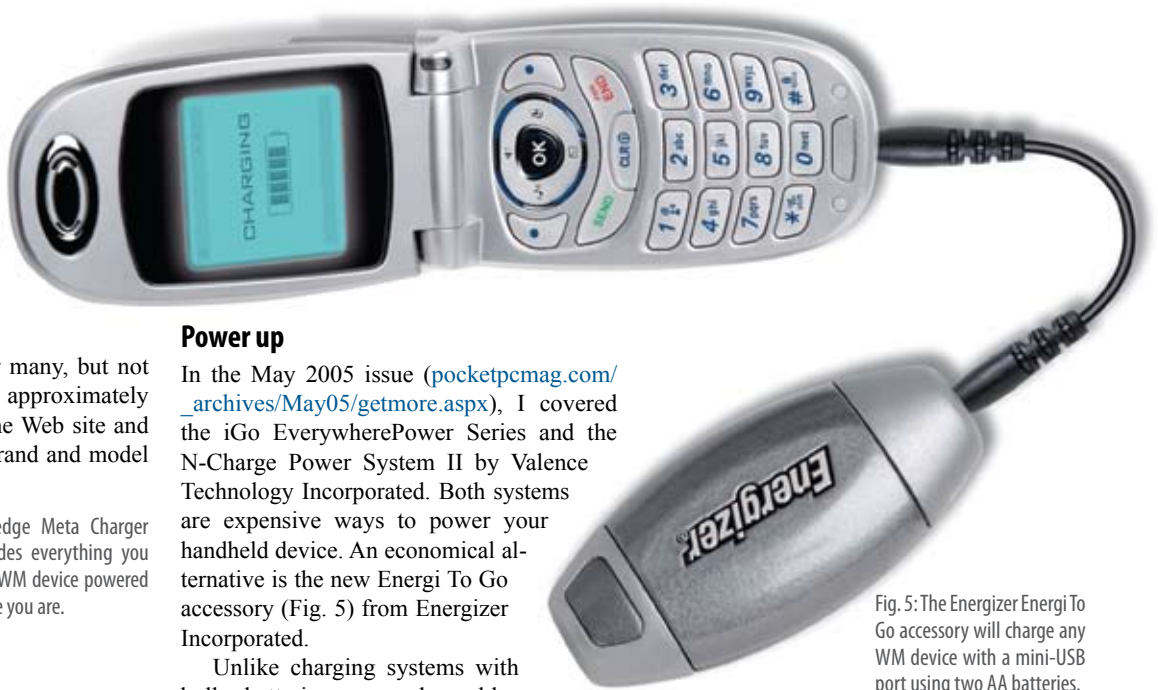


Fig. 5: The Energizer Energi To Go accessory will charge any WM device with a mini-USB port using two AA batteries.

## Power up

In the May 2005 issue ([pocketpcmag.com/\\_archives/May05/getmore.aspx](http://pocketpcmag.com/_archives/May05/getmore.aspx)), I covered the iGo EverywherePower Series and the N-Charge Power System II by Valence Technology Incorporated. Both systems are expensive ways to power your handheld device. An economical alternative is the new Energi To Go accessory (Fig. 5) from Energizer Incorporated.

Unlike charging systems with bulky batteries or complex cables, this very small unit uses two AA batteries to power or recharge your device. It isn't specifically designed for Windows Mobile devices, but one version of the Energi To Go system plugs into any handheld that uses a mini-USB cable to sync.

The Energi To Go accessory is available for \$19.95 (MSRP) at dozens of nationwide grocery, hardware, and office supply stores. Visit [energizer.com/energitogo](http://energizer.com/energitogo) to find retail outlets in your area, and check for compatibility with your device. It's also available at a number of online stores, including [BestBuy.com](http://BestBuy.com) and [Amazon.com](http://Amazon.com). The Energi To Go packaging also includes a "TRY ME" feature, where you can try to connect your phone to the cable which sticks out of the back of the packaging. Hats off to Energizer for an innovative product and packaging solution!

## GET MORE...

Because Energi To Go is inexpensive, you can keep a spare one in your car's glove box for emergencies. And because each Energi To Go comes with two AA batteries included in the packaging, you'll always have access to your handheld in a time of need.

## Want to "get more?"

Are you an expert in a particular Pocket PC technology and want to share your knowledge? Have you ever felt like you're not taking full advantage of some feature of your handheld? In either case, send your comments to ([danh@semperaptus.com](mailto:danh@semperaptus.com) or [rich@smartphonemag.com](mailto:rich@smartphonemag.com)). We will try to make it easier to become a Pocket PC power user! ■

## Play Pocket PC/Smartphone Music through Your Car Stereo

Roadmaster VRFM9 FM Modulator plugs into your car's cigarette lighter and transmits music wirelessly to your FM stereo system.

by Rich Hall



**R**oadmaster USA ([roadmasterusa.com](http://roadmasterusa.com)) recently announced the availability of its VRFM series of “FM Modulators.” These devices plug into your car’s cigarette lighter and allow you to play music or audio from the Pocket PC or another portable music player through your car’s FM radio. There are six devices in this series, varying in price and features. I tested the top-of-the-line VRFM9 (MSRP: \$69.99) with my Dell Axim X51v Pocket PC. (You can also use Smartphones and portable CD or MP3 players.)

The FM Modulator draws its power from your car’s battery through the cigarette lighter. Simply plug it into the cigarette lighter, connect your Pocket PC or portable media player to the device using the audio connectivity cable that comes with the Modulator, tune your FM radio and the device to an unused FM frequency, and you’re ready to go. (Note: The audio cable that ships with the device has a 2.5mm stereo plug on one end and a 3.5mm stereo plug on the other. The smaller plug inserts into the FM Modulator and the larger one into the audio jack

### SD card slot makes it even easier

I did not test the 2-way cigarette lighter adapter because I discovered a feature on the FM Modulator that made it unnecessary. In addition to a 2.5mm stereo jack, the FM Modulator I tested (version VRFM9) has an SD card slot and a USB port (Fig. 2). These allow you to insert an SD card or a USB flash drive directly into the device and play music using the controls on the face of the FM Modulator.

Since I store my music on an SD card, all I had to do was remove the card from my Axim and insert it into the FM Modulator’s card slot. The control buttons on the face of the FM Modulator allow me to play/pause the music, jump to the previous/next track, and shuffle the music. You can also adjust the music volume from the FM Modulator, but again, it’s better to leave it set in the mid-range and adjust it from your car’s audio system. The LCD on the face of the device displays the source of the music (USB or SD card), the FM frequency in use, and song titles as they are played.

The Quick Start guide that comes with the FM Modulator has instructions for formatting the SD card, but I did not need to use them. Even though my music files were stored on a previously-formatted SD card, in a sub-folder of the My Documents folder, the FM Modulator found the music on the card and played it without any problems.

### Listening to the perfect radio station

I enjoyed using the FM Modulator, but a couple of warnings are in order. First, the LCD readout and control buttons on this device are small, so connect your music player to the device or insert the SD card, and start your music playing **BEFORE YOU START DRIVING!** If you have to adjust something on the FM Modulator, pull over or wait for a red light.

Also, I tested the FM Modulator on my Toyota RAV4 SUV. The placement of the cigarette lighter in that vehicle is low on the dashboard, dangerously close to where my calf rests when I’m driving. Fortunately, there is a little lip on that part of the dashboard, which keeps my leg from drifting over too far and pushing up against the FM Modulator. Check this relationship out on your car to make sure there are no problems.

There are six versions of the FM Modulator available, ranging in price from \$19.99 to \$69.99. If you’re willing to work with a cabled connection and don’t mind the power issues I’ve described, any of these versions will work for you. However, I found that the easiest way to play my Pocket PC’s music through the FM Modulator was to move it over with the SD card and leave my Pocket PC in my Pocket. Because of this, I’m recommending the VRFM9—the only version to come with an SD card slot.

I don’t listen to radio stations much anymore because the ratio of songs I like to songs I can’t stand is getting rather small. Instead I buy the music I like and keep it with me on my Pocket PC. The FM Modulator makes it easier to play that music through my car’s audio system when I travel. It’s like I’m listening to the perfect radio station—no commercials and every song a personal favorite! ■



Fig. 1 (left): RoadPro 12 Volt 2 Way Accessory Adapter (\$16.99) at RealTruck.com.



Fig. 2 (right): The head of the VRFM9 FM Modulator swivels up to expose an SD card slot and a USB port.

on your Pocket PC or portable media player. If you have a Windows Mobile device with a 2.5mm stereo jack, you’ll need to get a cable with 2.5mm plugs on each end, or 3.5-to-2.5mm adapter. These should be available at an electronics store.)

### Easy to set up and use

The VRFM9 FM Modulator allows you to use one of 15 different FM frequencies for the wireless transmission. Select the particular frequency you want using the channel button located on the top of the device above the LCD. Then adjust the FM tuner in your car to the same frequency. You control the music playback—change tracks, fast forward, etc.—from the Pocket PC or music player you attach to the FM Modulator. You can also change the sound level from your Pocket PC, but I would avoid this. Set your Pocket PC’s sound level to mid-range, set Media Player Mobile’s sound level to 50%, and leave them there. Do the actual control of the volume, balance, bass, treble, etc., from your car’s audio system.

The main drawback of the FM Modulator is that it occupies the cigarette lighter slot. That means you can’t use another adapter to power or recharge your Pocket PC. This limits your use of the Pocket PC with the FM Modulator to a few hours. Fortunately, there are a couple ways to deal with this limitation.

One thing you can do is get an adapter that splits the cigarette lighter into two receptacles. A Web search on “2-way cigarette lighter adapters” will yield a number of sources for these devices, including the one pictured in Fig. 1. This type of adapter is usually priced in the \$5 to \$25 range.

## Fast Wi-Fi Cards for Palm Treo and Other Smartphones

by Tim Hillebrand

I recently reviewed several Wi-Fi cards for the Palm Treo 700w and 700wx, which do not come with built-in Wi-Fi capability. Not all of the cards that I tested worked, and some of them did not work well enough to recommend. However, one worked impeccably on both versions of the Treo (and several other Windows Mobile 5 Pocket PCs). I am delighted to recommend the recently released Just Mobile SDIO 802.11b/g Wireless LAN card. (Price: \$79; available at [just-mobileonline.com](http://just-mobileonline.com))

### The evolution of Wi-Fi

The evolution of Wi-Fi has progressed from the introduction of the 802.11b standard in 1997 to the present 802.11g standard. Cards using the brand-new 802.11n standard are also available, but I do not recommend buying them yet. They are not only expensive and difficult to find, but the “n” standard has not been finalized, and the card you buy may not be compatible with the final version. The best-case estimates of data speeds achieved by devices using these standards are as follows:

- 802.11b cards: up to 11 mbps
- 802.11g cards: up to 54 mbps
- 802.11n cards: up to 108 mbps

Happily, the 802.11b and 802.11g standards both operate in the 2.4 GHz band and are mutually compatible. This means that a device using the 802.11g standard can communicate with a network using an 802.11b wireless access point. However, the connection will occur at the lower 802.11b rate. Another thing to keep in mind is that the further away you are from the network’s access point, the slower your transmission speed will be.

### Installing and using the Just Mobile card

Setting up your Pocket PC to work with the Just Mobile card is quick and easy. First, establish an ActiveSync connection between your PC and Pocket PC. Then run the installation program that is found on the CD that ships with the card. This copies the necessary software driver to your Windows Mobile device. Finally, slip the Just Mobile card into your device.

The card is slightly larger than a standard SD memory expansion card. When inserted into the SD slot, it sticks up about ¼ inch—less than some other Wi-Fi cards I’ve tested.



The JustMobile Wireless LAN card (left) is slightly longer than a standard SD storage card (right).

When you first insert the card, a blue light starts flashing on the left side of the card until it automatically makes a connection with an open network, at which point the light stays on. A successful connection is also indicated by the Wi-Fi icon in the title bar—a small radio tower with a halo at the top. When the connection is established, two arrows facing in opposite directions appear on the icon (Fig. 1). If you have a Phone Edition device, you may wish to consider disabling the phone when connecting to Wi-Fi to conserve battery power. However, it seems to work fine whether or not the phone is active.



Fig. 1: When a successful Wi-Fi connection is established, it is indicated in the title bar at the top of the screen. Disable your phone when connecting to Wi-Fi to save the battery.

Tapping on the Wi-Fi icon opens a connectivity window that indicates your current connection, with green bars showing the strength of the connection. Tap on Wireless Manager and a new screen will appear that now contains Wi-Fi in addition to the customary Bluetooth and Phone options. This is where you would turn off your phone, if you wish. Click on Menu and select Wi-Fi Settings; the resulting screen (Fig. 2) shows all available networks, indicates whether they are open or closed, and shows your current connection. A little gold padlock indicates a closed, password-protected network.

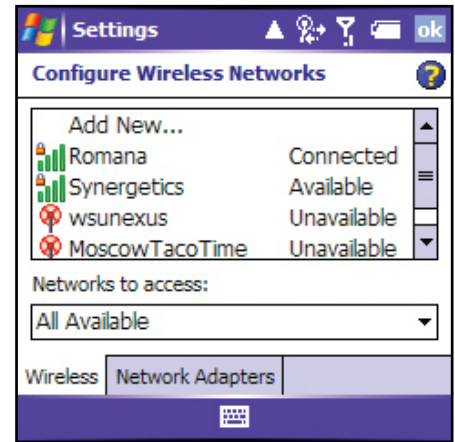


Fig. 2: The Wi-Fi Settings screen (under Menu >Wi-Fi Settings) displays all available networks and your current connection.

### Faster than high-speed cellular data networks

If you need mobile access to the Web for work or play, Wi-Fi capability is definitely worth having. It’s not only less expensive than cellular data plans, but is also faster (compare with EV-DO networks, which are only capable of speeds up to 800 kbps). Note also that Verizon has been terminating “unlimited” accounts for excessive use, a problem you will not have with Wi-Fi connectivity. Of course, you can also make phone calls free over the Internet using VoIP, which may be one of the reasons that Verizon and Sprint vetoed onboard Wi-Fi on the Treo 700w and 700wx.

Even if your Pocket PC comes with built-in Wi-Fi, it will most likely use the slower 802.11b standard. As Wi-Fi hotspots adopt the faster 802.11g standard, you may want to consider this card. If you are in the market for a Wi-Fi card to give you greater connectivity and higher data speeds, I recommend that you consider the Just Mobile SDIO 802.11g Wireless LAN card. It will serve you well and save you time and money. ■



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# Top Accessories Guide

Best accessories available for Windows Mobile PDAs and smartphones, with comments from our Board of Experts.

by Noah Ouellette, New Products Editor, *Smartphone & Pocket PC* magazine

The current trend in mobile technology is the elimination of anything that limits your freedom of movement. Cables and cords are disappearing fast, replaced by a wide range of accessories. Bluetooth is the current technology of choice for wireless connectivity, but wireless USB is coming soon to a smartphone, PDA, or accessory near you. It has advantages over Bluetooth, including faster connection speeds and less power consumption. We'll have to wait and see if wireless USB becomes as mainstream in the mobile arena as Bluetooth has.

This Guide to Accessories looks at a number of the top wireless accessories, as well as adapters, chargers, carrying cases, and more. It's based on our Board of Experts accessory picks and my Editor's Hardware Picks, but includes other great accessories. The Guide gives a brief description of the accessory, its price, where to find it online, and comments from members of our Board of Experts if they picked it as a favorite accessory.

## Adapters



### ORA USB Car Charger Adaptor

\$12.95 ([expansys-usa](http://expansys-usa.com))  
Make sure you're never without power with this USB car charger. It can be used for any hardware that charges through a standard USB port. Simply plug it into your car's cigarette lighter, and then attach your USB charging cable (not included) for all the power you'll need while on the road.



### Versa Charger PRO

\$25.95 ([boxwave.com](http://boxwave.com))  
Designed with new features and improvements, including an intelligent universal voltage conversion circuit that allows use in all countries. It has been designed to natively support one of two outlet plug styles, so it frees you from the need to use an additional adapter

for U.S. or European power outlets. Additionally, because of the improved USB port location, it doesn't occupy two wall outlets when plugged in.

*VersaCharger Pro is a single charging device capable of providing power to multiple devices. It makes life easier on the road, and you can use your devices' USB connectivity cables to charge your different units. It's lightweight and versatile, and it can be used in a wall socket or vehicle. (Remzi Semsettin Turer: [sems.org](http://sems.org))*

### Gomadic Dual Rapid Charger

\$19.95 ([gomadic.com](http://gomadic.com))  
The Gomadic Power Bundles allow you to charge your device in the car, from an outlet, with your computer, or with four AA batteries. It's compatible with TipExchange Technology that enables utility with hundreds of mobile devices.

*This accessory charges devices in half the time and has dual charger leads with swappable tips, which reduces the number of charging cords when traveling. Inexpensive tips are available for*



*thousands of devices. (Andy Mason: [aximsite.com](http://aximsite.com))*

### Gomadic QuadCharger

\$49.95 ([gomadic.com](http://gomadic.com))  
Using TipExchange Technology, you have the freedom to pick any 4 gadgets to charge. You simply plug and unplug the removable tips, which are custom-made for virtually thousands of devices.

*The QuadCharger allows you to charge four devices at the same time. The four cables use Gomadic's TipExchange system, allowing them to be quickly adapted to fit the vast majority of portable electronic devices. And if you buy a new device, all you have to do is get an inexpensive tip to charge it. This is by far the best universal charging system I have found. (Doug Goldring: [justanothermobilemonday.com](http://justanothermobilemonday.com))*



### myCharger

\$24.95 ([tekkeon.com](http://tekkeon.com))  
This USB power adapter lets you carry a single compact power adapter to charge your smartphone, PDA, and more at home or on the road. Add-on adapters are available for many 5V devices including smartphones, PDAs, Bluetooth headsets, digital cameras, MP3 players, portable games, and portable media players. An

optional travel pack includes interchangeable international plugs for use abroad.



### Solio Solar Charger

\$99.95 ([solio.com](http://solio.com))  
Solio, the universal "hybrid" charger, can power all of your handheld electronic products at home or on the move. Solio is a hybrid because it can accept power from either the wall socket or the sun and store energy within its internal rechargeable battery. It then uses this energy to power your mobile devices at the same rate as if they were plugged into the wall. Solio limits your need to purchase and carry around multiple chargers for all of your PDAs and smartphones. One hour of sun will give you enough juice to provide up to 25 minutes of additional talk time on most smartphones. When fully charged, Solio can store enough power to charge a smartphone at least two times.

## Batteries

### Mugen Power batteries

\$ varies ([unifirm.com](http://unifirm.com))  
Fattafa offers "Mugen Power"

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extended triple-capacity batteries for a variety of Windows Mobile devices.

## Carrying Cases & Protection

### E&B cases

\$varies ([ebcases.com](http://ebcases.com))

E&B offers carrying cases in a variety of styles for a variety of Windows Mobile devices. They also offer cables, screen protectors, and travel kits.

### Sena Cases

\$ varies ([senacases.com](http://senacases.com))

Sena offers a wide variety of cases for Windows Mobile and other handheld devices.



### Vaja Cases

\$ varies ([vajacases.com](http://vajacases.com))

All Vaja cases are handcrafted by leather artisans using full grain Argentine leather. The skins are chosen for their quality, beauty, and durability.

*Nothing else in this category is as beautiful or stylish as a Vaja Case. You can customize your case with any of their exciting color schemes and get matching cases for all your devices. From the moment you start using it, you'll be turning heads. (Dan Hanntula: [semperaptus.com](http://semperaptus.com))*



### OtterBox 1920 Palm Treo Case

\$99.99 ([otterbox.com](http://otterbox.com))

The OtterBox 1920 case is a rugged, polycarbonate case that protects Palm Treo 650 and Treo 700 series smartphones from water, dust, and dirt. The Case com-

pletely seals your device from elements while providing access to keypad, touch screen, volume, and program buttons.

### BodyGuardz

\$24.95 ([bodyguardz.com](http://bodyguardz.com))

Easy to apply, BodyGuardz are designed to offer a shield of protection to your device. BodyGuardz is a clear film that covers the devices body, providing scratch protection from outside elements. Designed to custom fit your device, these protectors are made from the same material that is used to protect the front of automobiles from stones and other abrasive elements. The protection is transparent so it doesn't distort the dimensions or design of your device.



### WriteSHIELD anti-GLARE and crystal-CLEAR

\$ varies ([pocketpctechs.com](http://pocketpctechs.com))

The only way to remove scratches on your device's screen is to fully replace the touch screen. The WriteSHIELD Premium Screen Protector anti-glare model features a matte finish that allows normal letter recognition and outdoor use. Each WriteSHIELD typically lasts 6-12 months.

*WriteSHIELD anti-GLARE and crystal-CLEAR screen protectors are of the highest quality possible. They fit perfectly on the device they're ordered for and protect the screen without ever deteriorating image quality or the smoothness of the writing surface. Best of all, their non-adhesive nature ensures that they're removable, cleanable, and most importantly, reusable. Unlike many other competing products, WriteSHIELD protectors have a tendency to last for years, making the extra dollars spent for them well worth it. (Darius Wey: [pocketpcthoughts.com](http://pocketpcthoughts.com))*



### Civilian Lab tech-recon LT harness bags

\$49.95 ([civilianlab.com](http://civilianlab.com))

The pouches are designed to hold specific combinations of gear. The model line offers combinations to suit any activity. The harness reconfigures to 6 different ways of wear for any situation. Each Covert system bags consist of two modules and a harness.

*These versatile designer gadget bags use a military-style harness system to strap your gadgets in place, keeping them evenly distributed and weighted. This is especially important during long bike and hike expeditions. They're also some of the coolest gadget bags I've seen to date. (Mike Riley: [mikeriley.com](http://mikeriley.com))*

## Contact Management



### CardScan Executive

\$259.99 ([cardscan.com](http://cardscan.com))

This mini-USB-fed card scanner and full contact management software allows power users to capture, consolidate, sort, search, and use contact info from cards, Web sites, and e-signatures. Features desktop styling with an optional travel case. The color scanner offers a three-second scan and synchronizes with Outlook/OE as well as ACT!, Lotus Notes, GoldMine, PDAs, and smartphones.

## Keyboards



### iGo Stowaway Ultra-Slim Bluetooth Keyboard (discontinued)

\$149.99 ([igo.com](http://igo.com))

Type, e-mail, and surf the Web in optimum comfort using your Bluetooth-enabled smartphone or PDA. It's sleek and functional and easily fits in a pocket or purse, yet opens to a full-size keyboard wherever and whenever you need it.

*It's the best keyboard I ever owned and beats the hell out of other BT keyboards. The size,*

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design, and ease of use are perfect. (Juan David Gomez: [juandg.wordpress.com](http://juandg.wordpress.com))

This nearly full-size keyboard folds up into a small, easy-to-carry package. It has good tactile response and works with just about any Bluetooth-enabled Windows Mobile device. (Andy Mason: [aximsite.com](http://aximsite.com))



**Celluon Bluetooth Virtual Keyboard**  
\$153.95 ([celluon.com](http://celluon.com))

This Virtual Laser Keyboard leverages the power of laser and infrared technology and projects a full-size keyboard onto any flat surface. As you type on the laser projection, detection technology based on optical recognition enables the user to tap the images of the keys, complete with realistic tapping sounds, which feed your compatible Bluetooth-enabled smartphone or PDA.

This innovative virtual keyboard can be used on any flat surface, and just looks cool. We are finally starting to see the Star Trek/Matrix/Minority Report virtual computers we have been waiting for. (Amy Zunk: [gadgetme.com](http://gadgetme.com))

## Mice

**Stowaway Bluetooth Mouse**  
\$79.99 ([igo.com](http://igo.com))

Easily navigate your compatible smartphone or PDA. It supports scroll wheel and right button clicking functionality. This mouse has a small, ergonomic design for maximum comfort. The mouse supports Word and Excel Mobile, Messaging, and more.

I never thought I would be us-



ing a mouse with my touch screen device. That's why you have a stylus, isn't it? But I've discovered that a mouse is far more useful, especially when you use an external keyboard. Having to pick up the stylus while you're typing slows you down tremendously. After a while, this mouse really turns your Pocket PC into a mini-laptop. (Juan David Gomez: [juandg.wordpress.com](http://juandg.wordpress.com))

## Wi-Fi



**Spectec 802.11b/g WLAN card**  
\$57.95 ([spectec.com.tw](http://spectec.com.tw))

MicroSD, miniSD, and SD Wi-Fi 11g card with ultra-low power consumption, this card can run up to speeds of 54 mbps on your smartphone or PDA.

There's nothing innovative about this older product anymore, but it continues to be the most important and useful accessory for Windows Mobile devices that don't have Wi-Fi onboard. It provides Internet availability at airports, bars, cafes, and everywhere a wireless network is available. Also, it's available in miniSD (shown here), microSD, and SD card formats. (Helio Diamant: [pocket.pcfreak.com](http://pocket.pcfreak.com))

## Multimedia and Entertainment

**Parrot Bluetooth Hi-Fi Sound System**  
\$449.99 ([parrot.com](http://parrot.com))

MP3 music can be found everywhere—on your MP3 player, your smartphone, and your PDA.



The Parrot Sound System streams your music using Bluetooth to the Parrot speakers.



**Slingbox Solo**  
\$179.99 ([slingmedia.com](http://slingmedia.com))

Allows you to watch and control your favorite TV source including your HD content from anywhere in the world on your smartphone. You can watch your DVR, digital cable, satellite receiver, or DVD player wherever you want.

## Headphones / Headsets



**Etymotic ety8 Bluetooth Stereo Earphones**  
\$199 ([etymotic.com](http://etymotic.com))

Enjoy the freedom of the first wireless in-ear stereo earphones. Leave your Bluetooth-enabled device nearby and listen wirelessly while exercising or moving about within a range of 30 feet. Supports A2DP, AVRCP profiles and Bluetooth 2.0.



**JBL Reference 510 BLK**  
\$149.95 ([jbl.com](http://jbl.com))

Now you can concentrate on your favorite music from your smartphone or PDA in all its full-spectrum glory, without the distraction

of all the commotion around you. Choose this compact, on-ear model that automatically blocks out up to 70% of ambient noise.



**Cardo S-800 BT headset**  
\$84.99 ([cardowireless.com](http://cardowireless.com))

The Cardo S-800's ultra-small size and iconic shape incorporate sophisticated technology, designed for extensive wear and use. The headset fits equally well when worn in-the-ear or when used with the over-the-ear loop.

This tiny headset has great sound quality and can perform advanced functions, such as accessing your speed dial, so you never have to take out your phone again. (Doug Goldring: [justanothermonday.com](http://justanothermonday.com))



**SoundID SM100 BT headset**  
\$129.99 ([soundid.com](http://soundid.com))

The SM100 automatically boosts what background noise drowns out without over-amplifying what's already clear. Compatible with all popular Bluetooth-enabled smartphones and audio accessories (Skype and VoIP), the SM100 EarModule combines the freedom of mobility with superior sound clarity and comfort.

This is one of the best Bluetooth headsets I have reviewed. Its small size makes it almost disappear into your ear. It utilizes noise canceling technology to enhance the sound on both the speaker and the microphone, meaning both parties will hear a clean and crisp sound when you use this with your phone. (Doug Goldring: [justanothermonday.com](http://justanothermonday.com))

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## GPS

With location-based searching, OTA (over the air) mapping and directions, and of course turn-by-turn information systems, GPS is coming of age. In my opinion, if your device doesn't already have it built in, you need a good GPS receiver as an accessory.

Dan Hantula  
semperaptus.com



### Qstarz BT-Q1000 32CH & 32HR BT GPS Data Logger Travel Recorder

\$99.95 ([qstarz.com](http://qstarz.com))

Features up to 32 hours of usage, tracks 32 satellites, logs over 100,000 way points, has a POI button for immediately recording a point of interest with a push of a button, and has built-in Google Earth integration. The Travel Recorder is very small, has a rubberized feel to it and a non-slip bottom. On the left side of the unit you find a sliding switch for the OFF and NAV / LOG positions, and the right side has a mini-USB Port.

*The feature I liked the most on this very accurate receiver was its data logging capability without being connected to a PC or Windows Mobile device. There are very few Bluetooth GPS receivers on the market with this capability.* (Russ Terrell: [mozongoware.com](http://mozongoware.com))



### Visiontac VGPS-700 Bluetooth GPS Receiver

\$159.99 ([visiontac.com](http://visiontac.com))

This Bluetooth-enabled GPS receiver includes SiRF Star III high performance with a low power consumption chipset. Also features 20 parallel satellite-tracking channels for fast acquisition and reacquisition, and position accu-

racy between 1 to 5 meters. The enclosure is made of GE original Polycarbonate material, with black high gloss piano finish.

*One of the smallest Bluetooth GPS devices I've seen, the Visiontac also sports the latest SiRF Star III technology with quick satellite acquisition times and up to 20 hours of continuous operation on a single charge—a remarkable device!* (Mike Riley: [mikeriley.com](http://mikeriley.com))



### Freedom Keychain GPS SiRF Star III Receiver with Bluetooth

\$99.95 ([freedominput.com](http://freedominput.com))

Ideal for connecting to your smartphone or PDA using Bluetooth technology. This powerful GPS receiver comes with the latest in GPS technology including the SiRF Star III which can show your accurate position even in difficult environmental locations. It is capable of connecting simultaneously to up to 20 satellite channels and has a solid working time of 10 hours.

*Its appearance is something new. When joined to your keys, it's hard to forget to take it with you.* (Mohammed Babae)

*The Freedom Mini is small enough to always be with me, making it handy for long trips as well as the random ones when I am not the driver. It's way more convenient than any other on the market.* (Josh Smith: [imjosh.com](http://imjosh.com))



### Holux GPSSlim 240

\$159.95 ([holux.com](http://holux.com))

An easy-to-use, dual-function wireless GPS, G, and Mouse, with the SiRF Star III high-sensitivity chip built-in GPS receiver with compact size, lightweight, and su-

perior sensitive receiving ability.

*This tiny Bluetooth GPS receiver uses the SiRF III chipset, giving it excellent reception and very long battery life. It gets a fix in well under a minute. And it is tiny, measuring 64 x 22 x 15 mm (2.5 x 0.85 x 0.6 inches).* (Remzi Semsettin Turer: [sems.org](http://sems.org))



### Parrot 3400 LS-GPS

\$289.99 ([parrot.com](http://parrot.com))

The Parrot 3400 LS-GPS kit combines, for the first time, a Bluetooth hands-free kit with a color screen and a GPS antenna.

## Flash Memory



### Kingston 1 GB MobilityKit

\$21.99 ([kingston.com](http://kingston.com))

The Kingston 1 GB Mobility Kit includes a microSD card with dual adapters and a USB card reader to give mobile consumers handy storage access when using SD-enabled smartphone or PDA devices. The kit provides a single card solution for your smartphones, digital cameras, media players and more using a microSD card as the centerpiece combined with miniSD and full-size Secure Digital (SD) card adapters, plus a USB reader. The 1 GB Kit comes with a black USB reader. Combined with included adapters, the microSD card can be used as full-size SD card with write protection switch, miniSD card, or USB reader to transfer data.

### Ora Memory 2 GB Compact Flash Card

\$ varies ([expansys-usa.com](http://expansys-usa.com))

These cards offer a great solution for the need of high storage capacity dictated by the ever-increasing demand for storing large digital content files, such as audio, digital still, and video images. They work with Pocket PCs, laptops, and external CF card drives. ■

## Accessories from PDA and smartphone manufacturers and vendors

by Dan Hart

**H**ardware accessories add functionality and help personalize Windows Mobile-powered devices. Many independent vendors offer PDA and smartphone accessories, but the first place you should look is the Web site of the manufacturer or vendor of your particular device. They will have replacements for accessories that shipped with the device and add-ons that they support and certify to work with their devices.

Note that some manufacturers also sell their PDAs, smartphones, and accessories through independent online vendors, such as [expansys-usa.com](http://expansys-usa.com), [PocketPCTechs.com](http://PocketPCTechs.com), [simoncells.com](http://simoncells.com), and [OnTheGoSolutions.com](http://OnTheGoSolutions.com). You can also try searching for specific accessories on [PriceGrabber.com](http://PriceGrabber.com) or [eBay.com](http://eBay.com).

For ruggedized/vertical market PDA accessories, check the device manufacturer's Web site.

### Acer

Acer ([global.acer.com](http://global.acer.com)) does not sell their handhelds or accessories directly in the U.S., but you can purchase them from eXpansys USA and other online resellers.

### ASUS

ASUS has a list of online resellers for their devices on their Web site ([usa.asus.com/wheretobuy.aspx](http://usa.asus.com/wheretobuy.aspx)). Accessories can be purchased from eXpansys USA and Pocket PC Techs.

### AT&T

AT&T markets and supports phone-enabled Windows Mobile devices from HTC, Samsung, and Palm. You can find and purchase these devices and their accessories directly from the AT&T Web site ([wireless.att.com/cell-phone-service/accessories](http://wireless.att.com/cell-phone-service/accessories)). Check the Samsung and Palm listings for accessory sources.

### Dell

Dell has discontinued its Axim line of Windows Mobile devices and no longer lists them on their site. However, accessories for these devices are still available. Go to [Dell.com](http://Dell.com) and do a search on "Axim Accessories." They are also available from eXpansys USA and other online vendors.

### E-TEN

E-TEN ([etencorp.com](http://etencorp.com)) lists the accessories available for each device on their corresponding Web page (under the "Accessories" link). You can purchase E-TEN devices and some accessories from eXpansys USA and other online vendors.

### Hewlett-Packard

HP offers accessories for its iPAQ line of devices through resellers and from its online store. Go to the iPAQ accessories Web page ([shopping.hp.com/store/accessories/computer/ipaq\\_accessories](http://shopping.hp.com/store/accessories/computer/ipaq_accessories)) and select the desired device to display a list of the available accessories.

### HTC

HTC ([htc.com](http://htc.com)) markets its Windows Mobile devices through other carriers and vendors. The best place to buy accessories for these devices

is through carrier Web sites or third-party vendors such as eXpansys USA and SimonCells.

### I-mate

I-mate ([imate.com](http://imate.com)) markets its devices and their accessories through third-party vendors. A list of authorized retailers is available on their Web site ([www.imate.com/resellers](http://www.imate.com/resellers)). You can also check on the eXpansys USA and SimonCells Web sites.

### Motorola

Motorola sells its phone-enabled Windows Mobile smartphones through wireless service providers like Verizon and Sprint. You can buy accessories through these service providers or directly from Motorola by going to the HelloMoto Web page ([direct.motorola.com/hellomoto/index.htm](http://direct.motorola.com/hellomoto/index.htm)), selecting your country, clicking on the Accessories link, and then clicking on the Phone Accessories link.

### Palm

Palm markets its Treo smartphones and accessories through wireless carriers and on its own Web site. To purchase accessories directly, go to the Palm accessories Web page ([palm.com/us/products/accessories](http://palm.com/us/products/accessories)). Palm accessories are also available from online vendors, including Treo Central ([treocentral.com](http://treocentral.com)), Everything Treo ([everythingtreo.com](http://everythingtreo.com)), and others.

### Samsung

Samsung currently markets Windows Mobile devices through AT&T, Verizon, and Sprint. You can buy accessories for these devices through these carriers or directly from Samsung. Go to [samsung.com/us/consumer](http://samsung.com/us/consumer), click on the Mobile Phones link, and then on the Mobile Phone Accessories link.

### Sprint

Sprint ([sprint.com](http://sprint.com)) currently offers Windows Mobile devices manufactured by Motorola, HTC, Samsung, and Palm. Accessories can be found by clicking on the Accessories link on the Sprint home page. Accessories for Palm, Motorola, and Samsung devices are available on their respective Web pages.

### T-Mobile

T-Mobile offers Windows Mobile devices and their accessories through their online store. Go to [t-mobile.com/shop/addons](http://t-mobile.com/shop/addons) and select an accessory category from the list.

### Verizon Wireless

Verizon ([verizonwireless.com](http://verizonwireless.com)) currently markets Windows Mobile devices from Motorola, Palm, and others, along with their accessories. To view them, highlight Phones & Accessories on the home page, highlight Accessories from the drop-down menu, and select one of the categories. ■