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September 16Apple's latest mainstream iPhone models in two sizes with A15 chip, car crash detection, satellite connectivity, and more. Pre-order now ahead of iPhone 14 launch on September 16, iPhone 14 Plus on October 7. This is an idea I had after a friend of mine had an accident with his laptop and his baby boy. I hate the usb devices that are too big but do not have an extension cable and are always in the way, especially on laptops.. Its an accident waiting to happen..In my case the Ethernet port was damaged when the cable was pulled brutally by accident. So a USB to Ethernet was used but this is way too big to "hang" out of a laptop and so the inevitable happened.. So I only had to solder a cable from the broken adapter to a new usb plug. The donor of the plug was an old broken flash drive. After the needed test to check that everything is working, some hot glue and heat shrink tubing.. By Nicole Martinez i usb 3 image by Bosko Martinovic from Fotolia.com Computer users who wish to move data between multiple computers, and have no storage device, can create a simple network with a USB data transfer cable and the provided software. This network can also facilitate the sharing of an Internet connection. A computer user can rely on a USB-to-USB data transfer cable that plugs into the USB ports on separate computers to create a simple connection. This enables her to transfer data from one computer to the other. The accompanying software facilitates the connection, and may also provide a user interface through which to transfer the files. Frequently, the user must install a driver – a program that controls hardware – to enable the computers to recognize the device. In this case, the computer at the other end. USB-to-USB transfer cables may come with a disc that includes the driver. The software may also provide an efficient way for the user to transfer files between computers. Not all USB data transfer cables require software installation. For example, Belkin manufactures the USB 2.0 File Transfer Cable that requires no drivers for connections between Windows XP, Vista or Windows 7 computers. Tapping into the core [33c3]Intel responded to a claim about hackers gaining hardware-level access to PCs sporting its sixth- and seventh-generation processors. The claim was made during a presentation at the 33rd annual Chaos Communication Congress conference in Hamburg, Germany, which showed how hackers could use a cheap device to gain access to a debugging interface embedded in hardware. The point of entry is through any USB 3.0 port on the device via Intel's Direct Connect Interface (DCI) feature provided with its sixth- and seventh-generation platforms. "Intel implemented a proprietary Intel Direct Connect Interface over USB for JTAG [Joint Test Action Group] debugging of closed chassis systems as a feature for 6th and 7th Gen Intel Core processor based platforms," Intel told Digital Trends. "DCI is an integral part in enabling debug of today's light and small form factor systems via industry standard JTAG protocols." That said, the hacking possibility revealed in the presentation is no cause for alarm. It's not going to bring the world to a standstill. A hacker must have physical access to a PC in order to carry out this specific attack. Even more, if hackers do manage to gain physical access, they can just about perform any attack from any angle, whether it is through a USB port, breaking open the PC, and so on. Intel points out that BIOS Guard will keep hackers from changing the firmware, and even if hackers do gain access to the debugging interface, they can't gain access to Intel's confidential instructions without grabbing a key from Intel through a non-disclosure agreement. Even more, encrypted hard drives can withstand against this specific attack. "To provide additional security, the DCI interface is disabled by default per Intel specification and can only be enabled with user consent via BIOS configuration," Intel told Digital Trends. "Physical access and control of the system is required to enable DCI." For a better understanding of what's going on, start with the debugging interface created by the JTAG. This standard was originally designed to test printed circuit boards once they were manufactured and installed but has since expanded to processors and other programmable chips. Scenarios for using the interface include forensics, research, low-level debugging, and performance analysis. The interface itself resides within the processor and programmable chips. In turn, JTAG-capable chips have dedicated pins that connect to the motherboard, which are traced to a dedicated 60-pin debugging port on a system's motherboard (ITP-XDP). This port enables testers to connect a special device directly to the motherboard to debug hardware in relation to drivers, an operating system kernel, and so on. But now the JTAG debugging interface can be accessed through a USB 3.0 port by way of Intel's Direct Connect Interface "debug transport technology." When a hardware probe is connected to the target Intel-based device, the USB 3.0 protocol isn't used, but rather Intel's protocol is employed so that testers can perform trace functions and other debugging tasks at high speed. Using a USB 3.0 port means testers aren't forced to break into the PC to physically connect to the XDP debugging port. Intel's Direct Connect Interface appears to be embedded in the company's sixth-generation motherboard chipsets, such as the 100 Series (pdf), and its processors. It's also used in the new seventh-generation Kaby Lake platform as well, meaning hackers have two generations of Intel-based PCs to infest and possibly render useless, such as by rewriting the system's BIOS. As shown in the presentation by security researchers Maxim Goryachy and Mark Ermolov, one way of accessing the JTAG debugging interface through the USB 3.0 port is to use a device with a cheap Fluxbabbit hardware implant running Godsurge, which can exploit the JTAG debugging interface. Originally used by the National Security Agency – and exposed by Edward Snowden – Godsurge is malware engineered to hook into a PC's boot loader to monitor activity. It was originally meant to live on the motherboard and remain completely undetectable outside a forensic investigation. However, as previously stated, hackers need to have physical access to a PC to take control and spread their malicious code in this specific JTAG-focused attack. Typically, the debugging modules in Intel's processors require Intel's SVT Closed Chassis Adapter connected via USB 3.0, or a second PC with Intel System Studio installed connected directly to the target PC via USB 3.0 as well. Finally, Goryachy noted in his presentation that the problem only resides with Intel's sixth- and seventh-generation Core 'U' processor platforms. Obviously, Intel is now fully aware of the report, but there is really no cause for alarm. Still, the debugging interface on affected PCs can be deactivated if needed. Even more, Intel Boot Guard can be used to prevent malware and unauthorized software from making changes to the system's initial boot block. This story was originally published in January 2017. Updated on 01-17-2017 by Kevin Parrish: Added Intel's response regarding the potential access to its processors. Editors' Recommendations List price: \$49.99 (street) Company: IOGEAR URL: www.iogear.com What's Nice: Hands-free calling; compatible with IM and VoIP software; easy plug-and-play installation. What's Naughty: You—if you use this in an office setting with other people around you; no mic or volume controls. What's the Deal: Do you ever get that feeling of being on speakerphone when somebody answers your phone call? You know: The other person is yelling at you, feels a bit distant, and is typing frantically. Well, there's nothing better than bringing that concept over to the computer. A USB speakerphone is no surprise either, considering that VoIP is rapidly gaining in popularity and IM clients are supporting voice chat. IOGEAR's speakerphone does the trick, makes it easy to work with, and manages to bring hands-free voice conferencing via a USB connection. Simply plug in the USB cable and dial, or click away, and that's it. No software required. We rallied a couple of troops around a desk and tested the speakerphone. We came through loud and clear. VoIP itself can sound a bit muddy at times, which means your voice will add a bit more to that. This honestly didn't remind us of anything different from your standard speakerphone on a telephone, although a volume or mic sensitivity control would be nice to have when other people are trying to get in on the call. >>More Gear Gifts The USB standard has come a bit far over the past few years, with many different generations and types to consider. Though speed differences are cited as the factors between each of the standards, it has become somewhat hard for some consumers to understand. In the latest headache, the USB Implementers Forum recently announced a next-generation USB-3.2 specification, promising fast-transfer speeds of up to 20GB per second, but also bringing some confusing name changes to previous standards. Though the changes aren't necessarily straightforward, the new USB-3.2 specification introduces a three-speed tier. The previous USB 3.0-and USB-3.1 specifications are now gone but are still keeping the same exact transfer speeds under different naming. The first tier— known as USB-3.2 Gen 1— (previously called USB 3.0,) is now upgraded in branding to SuperSpeed USB to indicate data transfer rates of up to 5GBps. A second tier— USB 3.2 Gen 2—(formerly known as USB 3.1,) gets the bump in naming to SuperSpeed USB 10 Gbps. The final and the newest tier— now known as USB 3.2 Gen 2x2— will be branded as SuperSpeed USB 20Gbps. That newest tier doubles the maximum overall speed, by allowing for two lanes of 10GBps data speed over the previous generation. It also makes it so that manufacturers will be able to state that their devices will support USB-3.2. However, for users, there still needs to be a direct way of knowing which speeds they will be getting. As a workaround, it is being recommended for manufacturers to stick to the SuperSpeed branding when marketing new USB-3.2 products. "When referring to a product that is based on and compliant with the USB-3.2 specification, it is critical for manufacturers to clearly identify the performance capabilities of that device separately from other product benefits and/or physical characteristics," said the USB Implementers forum. Still, these new specifications are all backward compatible with each other, so despite the inherent confusion, older devices will still work in any new laptop with USB-3.2. It is also being recommended for manufacturers to submit their products to the USB Implementers forum so that proper logos for better consumer recommendation. Combined with the frustrations of already having to deal with dongles when buying the latest laptops, this is an unwelcome development for consumers. Editors' Recommendations

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