

7535 G2
Hand-Held Computer
Quick Reference Guide
May 29, 2006 PN 8000076.A



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Computing Devices Portable Docking Module. Year of Manufacture The 7535 G2 Hand Held Microcomputer with Portable Docking Module, supplied by Psion Teklogix, I, the undersigned, hereby declare that the equipment as tested is representative within manufacturing Applicant. Legal Representative in U.S. Signature. Joe Musgrave. Full Name. V.P. Global Solutions, Americas. Position. Mississauga, Ontario, Canada. Erlanger, KY 41018, USA. Place. July 4, 2003. Date. Psion Teklogix 7535 HandHeld Computer Technical Manual This Product, and its accessories, comply with the requirements of the Waste Electrical and Electronic. If your end of life Psion Teklogix product or accessory Cet équipement est conforme aux principales caractéristiques définies dans la Directive Européenne et do Conselho Directiva RTT. Declaracao disponivel no endereco www.pSIONteklogix.com. Deze apparatuur voldoet aan de noodzakelijke vereisten van EU richtlijn betreffende radioapparatuur Psion Teklogix 7535 HandHeld Computer Technical Manual EU. Erklaring finnes på www.pSIONteklogix.com. Use of the 802.11b 7535 G2 in France. Owing to French Government restrictions, the 802.11b 7535 G2 HandHeld Computers are limited to French Ministry of Defense. North America. This equipment complies with Class B Part 15 of the FCC rules. Operation is subject to the following two conditions Psion Teklogix 7535 HandHeld Computer Technical Manual Changes or modifications not expressly approved by Psion Teklogix, the party responsible for For Class B Unintentional Radiators. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. <http://www.horb.com.cn/cms3/userfiles/fckFile/20201001085111.xml>

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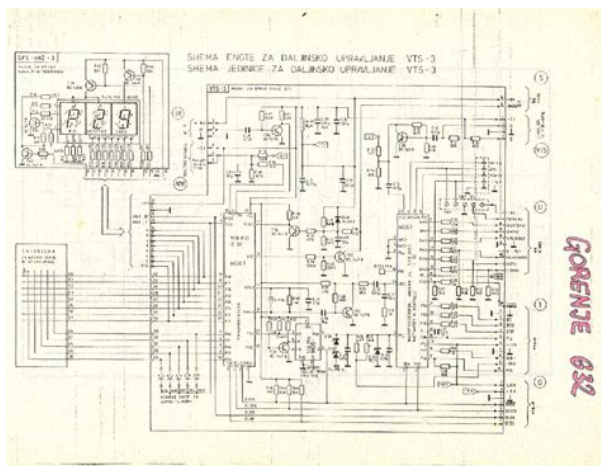
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These limits are designed to provide reasonable protection against This equipment generates, uses, and can radiate radio However, there is no guarantee that interference will If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is Warning. Changes or modifications not expressly approved by Psion Teklogix Inc. This product contains a laser scanner that emits less than 1.2 mW maximum radiant power at a This product complies with 21 CFR 1040.10, 1040.11 and DIN EN The SE1200 ALR has an maximum radiated power less than 1.4 mW; according to EN 608251 2001 it Psion Teklogix 7535 HandHeld Computer Technical Manual Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used Carefully review all battery safety issues. Psion Teklogix 7535 HandHeld Computer Technical Manual About This Manual This manual is intended as a technical reference guide for the Psion Teklogix 7535 G2 HandHeld Computer, to be used by field personnel servicing those units at both the assembly and component level. Approvals And Safety Summary Chapter 1 Introduction Chapter 2 Controls Appendix A Support Services And Worldwide Offices For 7535 G2 schematics, mechanical fabrication drawings, PCB fabrication drawings, datasheets, etc. The session to print BOMs is tibom1410m000 print to A portraitmode passive monochrome or TFT colour. VGA display with or without a Various internal and external undecoded and decoded scanners. Two different internal image scanners. An internal SD card slot intended for use with a memory card or a Bluetooth radio. Psion Teklogix 7535 G2 HandHeld Computer Service Manual Identifying Hardware. Figure 1.

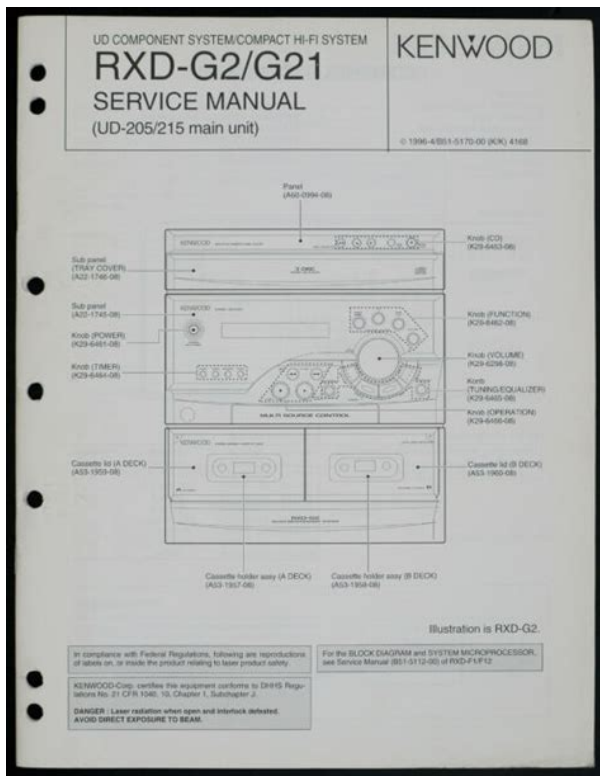
1 The 7535 G2 HandHeld Computer The 7535 G2's hardware configuration is listed in the information provided by the System Properties To reach this manually. The Control Panel opens. The System Properties window opens. System Properties lists the hardware and software in the 7535 Processor type and speed. Amount of RAM and flash memory. Type and orientation of display. Presence and type of touch screen. Presence and type of scanner. Type of keyboard. Psion Teklogix 7535 G2 HandHeld Computer Service Manual Presence of heater. Serial number of device. The 7535 G2's main processor is the Intel PXA255, which is the second generation of the StrongArm A smaller,

lowpower microcontroller, the “peripheral controller”, is used to control and monitor manyThere are also two PIC microcontrollers; one in the keyboard assembly scans the matrix keyboard andThe 7535 G2 may be ordered with or without a tether port, and with or without a handstrap or handgrip. The handstrap and handgrip are also available as customerinstallable options. Part numbers for the assembled housings are as follows. These assemblies include window glass,Older. IP54 Part Number. Type Of Housing. No. TouchscreenTouchscreenNo. TouchscreenTouchscreenNo Tether Port. Tether Port. No Tether Port. Tether PortPsion Teklogix 7535 G2 HandHeld Computer Service ManualScanners. On disassembled units, the housings may be distinguished by a label attached to the inside of the housing. Housing Identification Label. Figure 1.2 Location Of Housing Identification LabelThis top level software service is responsible for supporting a variety of Physical Scan Drivers PSDs,It receives decoded scan data from the drivers, performs anyThese scanners present raw data to the terminal.



<http://schlammatlas.de/en/node/20846>

Internal and external nondecoded laser scanners areActivation of the scanner triggers or the keyboard scan buttonsThe peripheral controllerThe nondecoded scan driver is responsible for receiving this data from the peripheral controller andThese scanners process their raw data themselves, presenting formatted data to the terminal. Both 1D andThe scanners will be connected to one of theActivation of the scanner triggers or the keyboardThe decoded scan driver is responsible forThe 7535 G2 can support an imaging scanner; both internal and external imaging scanners are supported. Psion Teklogix provides a driver for this scanner. Psion Teklogix 7535 G2 HandHeld Computer Service ManualThe DisplayThe following internal scanner devices scanners and RFID readers can be included with the 7535 G2. Wideangle undecoded 1D laser scanner Psion Teklogix assembly part number 10xxxxx. Standard undecoded 1D laser scanner part number 1001833. Longrange undecoded 1D laser scanner part number 1001834. Advanced longrange undecoded 1D laser scanner part number 1001835. Fuzzylogic decoded 1D laser scanner part number 1001836. PDF417 decoded 2D laser scanner part number 1001837. VGA decoded imaging scanner part number 1001838. XVGA decoded imaging scanner part number 1001839. Longrange XVGA decoded imaging scanner part number 1001840. XVGA highdensity decoded imaging scanner part number 1001841. XVGA infinitefocus decoded imaging scanner part number 1001847. RFID reader part number 1001843. An option for no scanner is also available part number 1020022. The internal scanner device connects through the ScanBay interface. Only one internal scanner is installed in the 7535 G2, but a second handheld scanner can be connectedExternal scanners can only be triggeredThe 7535 G2 is available with a 240x320pixel display, either monochrome 64 shades of grey or colourTouch input is an option for the 7535 G2’s display.



The touch driver controls the hardware directly to Touch events are passed to the application via theThe 7535 G2 has a backlight behind its display. This backlight can be adjusted for intensity, and can bePsion Teklogix 7535 G2 HandHeld Computer Service ManualThe KeyboardThe 7535 G2 is available with the following displays. Colour with no touch screen. Colour with 4wire touch screen. Colour with 5wire touch screen. The touch screen is provided as part of the display window glass. Devices with no touch screen haveThe display and touch screen are connected to the motherboard of the 7535 G2 through a Display. Transition Board DTB. The displays with the 4wire touch screen use a DTB with part numberColour. Display Part. NumberTransition Board. Touchscreen. Window Part NumberTable 1.2 Display Options For The 7535 G2. The 7535 G2 has two types of available keyboard layouts. One type has 58 keys; the other has 37 keys. Psion Teklogix' keyboard drivers take intoThe 7535 G2 has a backlight behind its keyboard. This backlight can be adjusted for intensity, and can beThe 7535 G2 has four tricoloured indicator LEDs.The 7535 G2 has an internal beeper whose volume can be manually adjusted via keyboard hotkeys.The 7535 G2 can accept accessory cards, which fit into internal slots in the unit. These cards can containTypically, 7535 G2 handheld computers are configuredThese slots are accessible when the terminal's endcap isPsion Teklogix 7535 G2 HandHeld Computer Service ManualThe EndcapThe Compact Flash slot is normally occupied by a radio. It can accept the following cards. A memory card 64, 128, 256, or 512 megabytes. An 802.11g radio card with internal or external antenna. Compactflash memory cards available for the 7535 G2 have included the following. Part Number. DescriptionTable 1.3 CompactFlash Memory Cards For The 7535 G2. Compactflash radio cards available for the 7535 G2 have included the following. DescriptionTable 1.4 CompactFlash Radio Cards For The 7535 G2.



A memory card 64, 128, 256, 512, Or 1024 megabytes. A radio card Bluetooth or 802.11b.

Description Bluetooth radio card. The 7535 G2's endcap covers the end of the unit, incorporating the window for the internal scanner, if Pision Teklogix 7535 G2 HandHeld Computer Service Manual Ports There are five variants of the 7535 G2's endcap. Description GSM radio. Endcap with imaging scanner window. Endcap with imaging scanner window, for Notes. This endcap is used with all the scanners This endcap is used with the two imaging Table 1.6 Endcap Variants. The external RFID reader, model RD7950, fits over the 7535 G2's endcap, leaving room for the scanner. The 7535 G2 has the following external ports. Docking port. Connects to chargers and docking modules; provides USB and serial connections. Tether port. Connects scanners and other cabled peripherals. See Appendix B for detailed descriptions and pinouts. The docking port allows the terminal to be placed in a cradle that allows battery charging and connection See "The Portable Docking. Module" on page 12 for details about the PDM. Figure 1.3 The Docking Port. Power. Power for charging the batteries and powering the terminal 9.24 V DC; 3.4 A max is supplied to the The terminal can supply 5V power 1.5 A max, 1A continuous to. This power is switched; the switch is controlled by Ports Console Port. Commands can be issued to The console port is shared by the 7535 G2's This console port is COM3 under Windows CE.NET. The console port uses a standard 3 wire serial interface Tx, D, Rx, D, GND. Signals levels are standard. RS232 levels. This port is provided as a 9 pin D connector on the Portable Docking Module. USB Host Port. The USB host interface complies with USB specification 1.1 and provides a "highspeed" connection to Power for external devices is provided through the docking port's power USB Client Port. The docking port provides a USB client interface to connect the 7535 G2 to a USB host computer Dock ID.

By reading a resistance value, the 7535 G2 can identify the device attached to the docking port. The Docking Services driver reads the ID, identifying the device, checks the registry to see which driver

toTether Port. Figure 1.4 The Tether Port. The tether port allows an external nondecoded scanner, a serial scanner, or a USB client device to beGeneric serial devices, such as printers, GPSPsion Teklogix 7535 G2 HandHeld Computer Service ManualPower Management. Tether ID. The 7535 G2 can identify a device connected to the tether port by sensing an identification resistor withinSee The Tether Port in Appendix B.The 7535 G2 is powered by a lithiumion rechargeable battery pack. The 7535 G2 can be powered fromWhen the 7535 G2 is powered from the AC adaptor, itAn internal supercapacitor holds charge for up to ten minutes to preserve the contents of RAM while theThe 7535 G2 can be connected to a Portable Docking Module PDM. The model 7535 G2 terminal canUSB TypeB Client Port. Docking Port. Serial Port. USB TypeA Host Port. DC Power Connector. Figure 1.5 The Ports Of The Portable Docking ModuleThe Portable Docking Module. The Portable Docking Module provides serial and USB ports. The PDM has the following ports. Serial port. This 9pin Dconnector accepts a nullmodem serial cable which connects to an externalUSB type B port. This port accepts a cable from a USB host typically the development machine. USB type A port. This port connects the 7535 G2 to other devices; the 7535 G2 serves as a USB host. This port connects to the 7535 G2. DC power connector. Accepts 15 V DC from the power adaptor. The Portable Docking Module is available as part of a kit from Psion Teklogix. This kit, Psion TeklogixThe Portable Docking Module part number 1030083001. A USB AB cable part number 9003322. A null modem cable part number 9003659. An ACtoDC power adaptor part number 9007558. A power cord. North American power cord part number 9008693.

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Psion Teklogix 7535 G2 HandHeld Computer Service ManualPsion Teklogix 7535 G2 HandHeld Computer Service ManualOverviewThis chapter describes the controls of the 7535 G2.The 7535 G2's hardware configuration is listed in the information provided by the System PropertiesTo reach this manually. The Control Panel opens.The System Properties window opens.Properties lists the hardware and software in the 7535 G2. Listed items include. Processor type and speed. Presence and type of touchscreen. Presence of heater. Serial number of device. Psion Teklogix 7535 G2 HandHeld Computer Service ManualThe KeyboardThe 7535 G2 has two types of available keyboard layouts. Figure 2.1 58Key Keyboard left And 37Key KeyboardThe 7535 G2 has a backlight behind its keyboard. This backlight can be turned off and on, adjusted forThe 7535 G2 has four tricoloured indicator LEDs. Radio LED. User Application LED. Charge LED. Scan LED. Figure 2.2 Indicator LEDsCharge LEDThis indicator is active even when theFunction. Charge LED Behaviour. External power not available. Fully charged to within 95% ofQuick charge successfully completedCharge in progress. Cell temperature out of range forUnable to charge battery. Charge circuit failure. LED off. LED displays solid green colour. LED flashes slow green. LED displays solid yellow colour. LED flashes yellow. LED displays solid red colour. LED flashes fast red. Table 2.1 Charge LEDsThe upperleft LED on the 7535 G2 flashes yellow or green when the radio transmits and receives data. Note. LED, not all radios support this function. Function. Radio Traffic LED Behaviour. Radio Transmit. Radio Receive. LED flashes green. Table 2.2 Transmit and Receive LEDsFunction. Scan in progress. Successful scan. Unsuccessful scan. Scan LED Behaviour. LED displays solid red during scan. LED displays solid green after decode. Off when scan ended. LED flashes red. Table 2.3 Scan LED.

Psion Teklogix 7535 G2 HandHeld Computer Service ManualUser Application LEDThis indicator is available for custom applications. Neither the 7535 G2's operating system nor Psion. Teklogix' terminalemulator TekTerm use this LED.The 7535 G2 has an internal beeper whose volume can be manually adjusted via keyboard hotkeys.To switch on. To switch off. The 7535 G2 enters a suspended state. TheThe 7535 G2 hardware can be reset in two different ways. The first way restarts the operating system. The second way does not load the operating system, but presents the

bootloader. The bootloader can loadIt has a textmode console at which commands can be entered. To reset the 7535 G2 and restart the operating systemTo reset the 7535 G2 and display the bootloaderThe four indicator LEDs light for a second, andA reset results in a complete reboot of the unit. All RAM memory contents are lost. The contents of theA.1 Technical Support. Technical Support for Mobile Computing Products is provided via email through the Psion Teklogix customerTo reach the website, go to www.pSIONteklogix.com and click on the Teknet link on theThen click on the Login button or the RegisterOnce you have logged in, search forA.2 Product Repairs. International. For technical support outside of Canada or the USA, please contact your local Psion Teklogix office listed onNote. Customers calling the tollfree number should have their Psion Teklogix customer number orVoice1 800 3878898 press option "2". Fax1 905 8126304. Psion Teklogix 7535 G2 HandHeld Computer Service ManualPsion Teklogix Corp. Psion Teklogix S.A.Mississauga, Ontario. Canada L5N 7J9Suite 500. Erlanger, KentuckyCedex 3; France. A.4 Worldwide WebPDF Version 1.6. Linearized No. Page Mode UseOutlines. Signing Date 20060217 1600310500. Annotation Usage Rights Create, Delete, Modify, Copy, Import, Export. XMP Toolkit 3.1702. Producer Acrobat Distiller 7.0.5 Windows. Copyright Psion Teklogix Inc. Create Date 20060217 102240Z. Creator Tool FrameMaker 7.0.

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