8525 G2/8530 G2 Vehicle-Mount Computer
Quick Start Guide

April 7, 2006   PN 8000001.A

ISO 9001 Certified
Quality Management System

PSION TEKLOGIX

Return-To-Factory Warranty

Psion Teklogix provides a return to factory warranty on this product for a period of twelve (12) months in accordance with the Statement of Limited Warranty and Limitation of Liability provided at www.psionteklogix.com/warranty. (If you are *not* already a member of Teknet and you attempt to view this warranty, you will be asked to register. As a member of Teknet, you'll have access to helpful information about your Psion Teklogix products at no charge to you.) In some regions, this warranty may exceed this period. Please contact your local Psion Teklogix office for details. For a list of offices, refer to "Support Services & Worldwide Offices" on page 52. The warranty on Psion Teklogix manufactured equipment does not extend to any product that has been tampered with, altered, or repaired by any person other than an employee of an authorized Psion Teklogix service organization. See Psion Teklogix terms and conditions of sale for full details.

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Note: Not all accessories or peripherals will have a RoHS logo due to physical space limitations or as a result of their exempt status.

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Approvals And Safety Summary

CE Marking

When used in a residential, commercial or light industrial environment the product and its approved UK and European peripherals fulfil all requirements for CE marking.

R&TTE Directive 1999/5/EC

This equipment complies with the essential requirements of EU Directive 1999/5/EC (Declaration available: www.psionteklogix.com).

Cet équipement est conforme aux principales caractéristiques définies dans la Directive européenne RTTE 1999/5/CE. (Déclaration disponible sur le site: www.psionteklogix.com).

Die Geräte erfüllen die grundlegenden Anforderungen der RTTE-Richtlinie (1999/5/EG). (Den Wortlaut der Richtlinie finden Sie unter: www.psionteklogix.com).

Questa apparecchiatura è conforme ai requisiti essenziali della Direttiva Europea R&TTE 1999/5/CE. (Dichiarazione disponibile sul sito: www.psionteklogix.com).

Este equipo cumple los requisitos principales de la Directiva 1995/5/CE de la UE, "Equipos de Terminales de Radio y Telecomu-nicaciones". (Declaración disponible en: www.psionteklogix.com).

Este equipamento cumpre os requisitos essenciais da Directiva 1999/5/CE do Parlamento Europeu e do Conselho (Directiva RTT). (Declaração disponível no endereço: www.psionteklogix.com).

Ο εξοπλισμός αυτός πληροί τις βασικές απαιτήσεις της κοινοτικής οδηγίας EU R&TTE 1999/5/EK. (Η δήλωση συμμόρφωσης διατίθεται στη διεύθυνση: www.psionteklogix.com)

Deze apparatuur voldoet aan de noodzakelijke vereisten van EU-richtlijn betreffende radioapparatuur en telecommunicatie-eindapparatuur 199/5/EG. (verklaring beschikbaar: www.psionteklogix.com).

Dette udstyr opfylder de Væsentlige krav i EU's direktiv 1999/5/EC om Radio- og teleterminaludstyr. (Erklæring findes på: www.psion-teklogix.com).

Dette utstyret er i overensstemmelse med hovedkravene i R&TTE-direktivet (1999/5/EC) fra EU. (Erklæring finnes på: www.psiontek-logix.com).

Utrustningen uppfyller kraven för EU-direktivet 1999/5/EC om ans-luten teleutrustning och ömsesidigt erkännande av utrustningens överensstämmelse (R&TTE). (Förklaringen finns att läsa på: www.psionteklogix.com).

Tämä laite vastaa EU:n radio- ja telepäätelaitedirektiivin (EU R&TTE Directive 1999/5/EC) vaatimuksia. (Julkilausuma nähtävillä osoitteessa: www.psionteklogix.com).

PSION TEKLOGIX tímto prohlašuje, že 8525 G2/8530 G2 je ve shodě se základními požadavky a dalšími příslušnými ustanovenímisměrnice1995/5/ES (NV č. 426/2000 Sb.) a Prohlášení o shodě je k dispozici na www.PsionTeklogix.com.

Toto zařízení lze provozovat v České republice na základě generální licence č. GL - 12/R/2000.

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Toto zariadenie je možné prevádzkovať v Slovenskej republike na základe Všeobecného povolenia č. VPR-01/2001.

(!) Use of the 802.11 8525 G2/8530 G2 in France:
Owing to French Government restrictions, the 802.11 8525 G2/
8530 G2 is limited to indoor use. They may be used outdoors, on
private property, only with prior authorization from the French
Ministry of Defense.

FCC Information To Users

Federal Communication Commission Interference Statement

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.
These limits are designed to provide reasonable protection against
harmful interference in a residential installation. This equipment
generates, uses and can radiate radio frequency energy and, if not
installed and used in accordance with the instructions, may cause
harmful interference to radio communications. However, there is no
guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or televi-
sion reception, which can be determined by turning the equipment
off and on, the user is encouraged to try to correct the interference by
one of the following measures:

- 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 connected.
- Consult the dealer or an experienced radio/TV technician
  for help.

This device complies with Part 15 of the FCC Rules. Operation is
subject to the following two conditions: (1) This device may not
cause harmful interference, and (2) this device must accept any inter-
ference received, including interference that may cause undesired
operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

The separation distance between the antennas of RA2040 and RA1001 radios and between antennas and the 8525 G2 should be greater than 20 cm.

Some equipment in hospitals and aircraft are not shielded from radio frequency energy. Do not use the 8525 G2/8530 G2 onboard aircraft, or in hospitals, without first obtaining permission.

Do not use near pacemakers. The product may affect the operation of some medically implanted devices such as pacemakers, causing them to malfunction. Avoid placing your product next to such devices. Keep a minimum distance of 20 cm between the device and the product to reduce the risk of interference. If you have any reason to suspect that interference is taking place, turn off the 8525 G2/8530 G2 and contact your cardiologist for assistance.

Note: In August 1996 the Federal Communications Commission (FCC) of the US adopted an updated safety standard for human exposure to radio frequency energy emitted by FCC regulated transmitters. The design of this product complies with the FCC guidelines and those standards. To maintain compliance with the FCC RF exposure guidelines, ensure the antenna is at least 20 cm from your body when transmitting.

Emissions Information For Canada

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. When using the 802.11 radio option, to prevent radio interference, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. En cas d'utilisation du module radio 802.11, afin d'éviter toute interférence radio avec le service autorisé, l'appareil doit être utilisé à l'intérieur, tout en tant éloigné de toute fenêtre afin de garantir le maximum de protection. Si cet équipement (ou son antenne émettrice) est installé à l'extérieur, il est alors soumis à licence.

Warnings to Users

RF EXPOSURE

Warning: To satisfy FCC RF exposure requirements for vehicle mount transmitting devices, a separation distance of 20 centimetres should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

DO NOT REMOVE COVERS OR OPEN ENCLOSURES

To avoid injury, the equipment covers and enclosures should only be removed by qualified service personnel. Do not operate the equipment without the covers and enclosures properly installed.

CAUTION

Use of the Vehicle Mount Computer while charging the fork truck battery is prohibited.

CAUTION

Use of additional wiring and attachments not recommended or sold by the manufacturer may result in fire, electric shock or personal injury.

CAUTION

If using an AC adaptor, use only the AC adaptor recommended by manufacturer.

CAUTION

Do not operate the vehicle-mount computer with a damaged cord or plug. Replace immediately.

CAUTION

Make sure the cord is positioned so that it is not stepped on, tripped over or otherwise subjected to damage or stress.

CAUTION

An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in fire or electric shock.

CAUTION

To reduce risk of electric shock, unplug the vehicle-mount computer from the DC source before attempting any maintenance or cleaning.

Warning: Physically disconnect the 8525 G2/8530 G2 from the vehicle battery during battery charging (into AC outlet).

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make the provision valid and enforceable, and the remaining provisions will remain in full force and effect. Failure by us to insist on strict performance or to exercise a right when entitled, does not prevent us from doing so at a later time, either in relation to that default or any subsequent one.

No modifications of this Agreement shall be effective unless in writing and approved by us.

You acknowledge that you have read this Agreement, understand it, and that it is the complete agreement between you and Psion Teklogix with respect to the subject matter hereof and supersedes all prior agreements, oral or written.

1. Basic Preparation

Important: ***All approval and safety information is outlined in the '8525 G2/8530 G2 Vehicle-Mount Computer User Manual' – part number 8000083. It is important that you review all safety guidelines before charging a battery or operating a scanner.***

This quick start guide provides basic information on the operation and features of the Psion Teklogix 8525 G2/8530 G2 vehicle-mount computers. For more detailed information, refer to the *8525 G2/8530 G2 Vehicle-Mount Computer User Manual,* online help, or the documentation supplied with the application you are using.

Typically, 8525 G2/8530 G2 vehicle-mounts are configured at the factory and arrive ready for use. Although the 8525 G2/8530 G2 is equipped with an internal Compact Flash and SD I/O slots, these slots are not intended for user modification. If a device needs to be changed or added in these slots, contact qualified Psion Teklogix personnel.Refer to "Support Services & Worldwide Offices" on page 52 for the service number closes to you.

1.1 Vehicle-Mount Safety Instructions

- The cord should be installed in the vehicle so that it is not subjected to damage or stress.
- Use of an attachment to the power cord not recommended or sold by manufacturer may result in fire, electric shock, or personal injury.
- An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in fire or electric shock. If an extension cord must be used, make sure:
    - The plug pins on the extension cord are the same number, size, and shape as those on the adaptor.

- The extension cord is properly wired and in good electrical condition and that the wire size is larger than 16 AWG.

- When connected to the battery or AC adaptor, the mains power cord shall comply with National safety regulations of the country where the equipment is to be used.

- Do not operate the battery or AC adaptor with a damaged cord or plug. Replace it immediately.

- Do not operate the AC adaptor if it has received a sharp blow, been dropped, or otherwise damaged in any way; it should be inspected by qualified service personnel.

- Do not disassemble the AC adaptor; it should be repaired by qualified service personnel. Incorrect reassembly may result in electric shock or fire.

- To reduce risk of electric shock, unplug the battery or AC adaptor from the outlet before attempting any maintenance or cleaning.

- Do not expose the battery or AC adaptor to rain or snow.

1.2 8525 G2/30 G2 Freezer & Outdoor Guidelines

8525 G2/8530 G2 vehicle-mounts are sealed against dust and high-pressure water jets to the international standard IP66.

1.2.1 Important Operating Instructions

Warning: IT IS CRITICAL that this information be reviewed and that any guidelines applicable to your vehicle-mount be strictly followed.

For All Freezer Vehicle-Mounts

- Use vehicle-mounts only in the environments for which they are designed.

- All Psion Teklogix freezer vehicle-mounts have built-in heaters where required to warm internal components. To help

maintain the temperature, units should be switched on before entry into a freezer environment and should be left connected to vehicle power and running at all times while in a freezer environment.

- When moving between freezer and warm, humid environments, window condensation or icing on the outside of the display window is a normal occurrence. Wiping the condensation from the window may help, but the operator may need to wait until the condensation stops forming before use.
- To reduce condensation and frost on vehicle-mount displays, use an anti-fogging agent once a week or as required.
- Contact lubricant and connector caps must be used on all external connectors to maintain a moisture barrier and prevent corrosion during freezer and outdoor use. On all 8525 G2/8530 G2 vehicle-mount computers, the contact lubricant –PN 95146 (Nyogel) must be used. Further, the appropriate contact lubricant should be replaced at least monthly in applications requiring daily or frequent removal of cables. Refer to the table below for connector cap part numbers.

Vehicle-Mount Type	Connector Cap	Part Number
8525 G2/8530 G2	26-pin DSUB Female	9008295
8525 G2/8530 G2	9-pin DSUB	9008296
8530 G2	26-pin DSUB Male	9008294

Backup Battery

The vehicle-mount back up battery capacity is reduced as the operating temperature cools. The table below provides a general outline of battery capacity based on the operating temperature. Charging of the back up battery will occur between $+5°$ C and $+45°$ C.

Note: If the backup battery temperature is less than $+10°$ C and a brown-out occurs, the display backlight will switch off in order to maintain vehicle-mount operations. The backlight

will switch back on when external power is restored or the battery temperature is above +10° C.

Temperature	Backup Battery Capacity
-30° C (-22° F)	35%
-20° C (-4° F)	45%
-10° C (14° F)	60%
0° C (32° F)	close to 80%

Warning: Do not install the 8525 G2/8530 G2 in such a way that the power cable is bent 90 degrees as this may damage the power cable and power cable strain relief.

- To prevent condensation when a vehicle-mount is moved from a freezer to a warmer environment, it is recommended that the computer power be left on for at least five minutes.
- When not in use, vehicle-mount freezer units should be stored in temperatures above 0° C (32° F).
- To prevent keyboard keys from freezing up, the keyboard should be mounted off the horizontal plane. This allows water to run off the keyboard and prevents it from pooling on the keypad, freezing and finally physically jamming the keys. Mounting the keyboard off the horizontal plane also prevents water from dripping onto the keypad area.

1.3 Switching The Unit On

Switching The 8525 G2 On And Off

- Press the [ENTER/ON] key.

Note: If the 8525 G2/8530 G2 is in suspend state, pressing [ENTER/ON] key 'wakes' the unit from this state. The screen in which you were working before the computer entered suspend state is displayed.

To switch off the 8525 G2:

• Press the [BLUE] key, and then press the [ENTER/ON] key.

Turning off the 8525 G2/8530 G2 does not result in a complete reboot; rather, the unit enters a power-saving, "suspend" state. When the 8525 G2/8530 G2 is turned on from suspend state, operation resumes within a few seconds.

Important: *If the word 'BLUE' is displayed in uppercase in the taskbar at the bottom of the screen, this key is locked 'on' – the 8525 G2/8530 G2 will not switch off. Press the [BLUE] key again to unlock it; then press [BLUE] [ENTER/ON] to switch the 8525 G3 off.*

If, however, you've disabled the 'Blue Key' in the 'One Shot' dialog box, the 8525 G2/8530 G2 can be turned off even when the [BLUE] key is locked 'on'. Refer to 'Keyboard One Shot Modes' in the '8525 G2/8530 G2 Vehicle-Mount Computer User Manual'.

Switching The 8530 G2 On And Off

• Press the [ON/OFF] switch on right side of the 8530 G2 to turn the unit on and off, *or*

Press the [ENTER/ON] key to turn the 8530 G2 on, and press [BLUE] [ENTER/ON] to turn the unit off.

*Note: Pressing the 8530 G2 ON/OFF switch or using the [BLUE][ENTER/ON] key combination does **not** result in a complete reboot. The unit enters a 'suspend' state until it is switched on.*

1.4 Connecting To An 802.11 Network

In most cases, the 8525 G2/8530 G2 must be configured before it can connect to an 802.11 wireless network. The *8525 G2/8530 G2 Vehicle-Mount Computer User Manual* (PN 8000083) describes this

configuration process. Refer to *"Configuring An IEEE 802.11 Radio" in Chapter 2: Basic Checkout* for details. Once the 8525 G2/8530 G2 is properly configured, it automatically connects to your wireless network within a few moments of switching on. A radio icon in the taskbar indicates a successful network connection along with the quality of the radio reception.

1.5 Calibrating The Touchscreen

Before using your 8525 G2/8530 G2, you will need to calibrate the touchscreen. Refer to "Calibrating The Touchscreen" on page 20 for details.

1.6 Resetting The 8525 G2/8530 G2 Vehicle-Mount

Important: Because Psion Teklogix cannot guarantee what has been saved (registry) after a reset, this should be considered as a last resort.
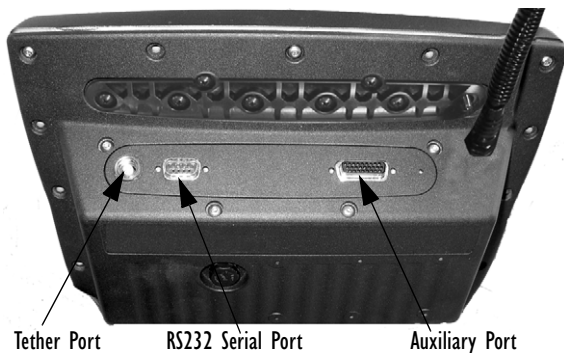
To reset the 8525 G2/8530 G2:

• Press and hold down the [BLUE] key and the [ENTER/ON] key simultaneously for a minimum of six seconds.
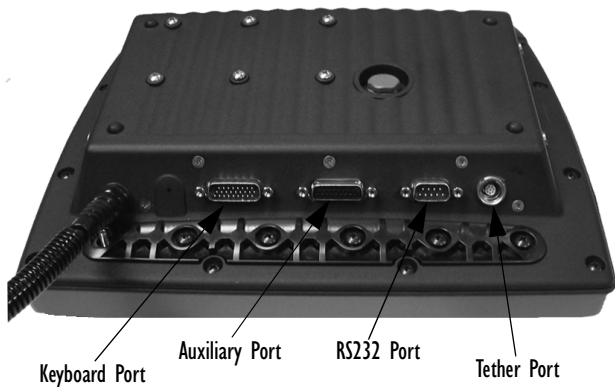
A reset results in a complete reboot of the unit. All RAM memory contents are lost. While it is most likely that the contents of the flash memory and memory card will be preserved, Psion Teklogix cannot guarantee this.
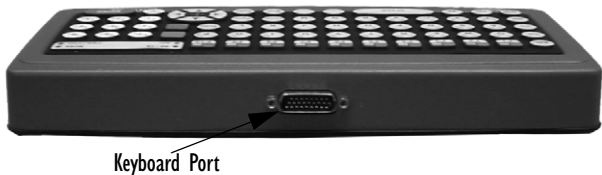
Note: On the 8530 G2, pressing and holding down the 'on/off' switch on the right side of the unit for 10 or more seconds resets the unit.

2.1.1 8525 G2 Ports

Tether Port   RS232 Serial Port   Auxiliary Port

2.1.2 8530 G2 Ports

Keyboard Port   Auxiliary Port   RS232 Port   Tether Port

Keyboard Port

2.2 The Internal Backup Battery

The 8525 G2/8530 G2 vehicle-mount is equipped with an internal battery that will provide backup power to the unit for up to fifteen minutes of normal operation. After 15 minutes, the unit will shut off to preserve the contents of RAM.

The backup battery is *not* user accessible. It must be replaced by authorized Psion Teklogix personnel.

2.3 The Keyboard

The 8525 G2/8530 G2 offers three keyboard layouts – QWERTY, ABC and AZERTY. The 8530 G2 is equipped with an external keyboard offering the same layouts as the 8525 G2 vehicle-mount.

Most of the keys on these keyboards operate much like a desktop computer. If a key or key function is not consistent with the PC keyboard, the differences are noted.

Note: The 8525 G2/8530 G2 provides the framework to design your own SIP. On the 8530 G2, a soft keyboard that is an exact replica of the external keyboard is available. Refer to the '8525 G2/8530 G2 Vehicle-Mount Computer User Manual' (PN 8000083) for details.

2.3.1 Modifier Keys

The [SHIFT], [CTRL], [ALT], [BLUE] ad [ORANGE] keys are *modifier* keys. Pressing a modifier key changes the function of the next key pressed. For example, on a QWERTY keyboard, a square bracket is printed in *orange* print above the [4] key. Pressing the [ORANGE] key followed by the [4] key displays a square bracket rather than the number 4.

The [SHIFT], [CTRL] and [ALT] keys operate much like a desktop keyboard except that they are not chorded (two keys held down simultaneously). The modifier key must be pressed first followed by the key whose function you want modified.

Activating Modifier Keys

When a modifier key is pressed once, it is displayed in lowercase letters in the taskbar at the bottom of the 8525 G2/8530 G2 screen. For example, if the [CTRL] key is pressed, ctrl key is displayed at the bottom of the unit screen. Once another key is pressed, the modifier key becomes inactive and disappears from the taskbar.

Locking Modifier Keys

When a modifier key is 'locked' on, it is displayed in uppercase letters in the taskbar. For example, pressing the [BLUE] key twice locks it on – it is displayed as BLUE KEY in the taskbar at the bottom of the computer screen.

The locked modifier key will remain active until it is pressed a third time to unlock or turn it off. Once a modifier key is unlocked, the uppercase representation at the bottom of the screen is no longer displayed.

*Note: The locking function of any modifier key can be disabled so that pressing it **once** will lock the key 'on'.*
*If you disable the 'One Shot' function (accessible through the Control Panel 'Keyboard' icon) of a modifier key, pressing the key **once** will lock it 'on'. Pressing the same key a second time will unlock or turn it 'off'.*

2.3.2 The Keys

The [BLUE] And [ORANGE] Keys

The [BLUE] and [ORANGE] modifier keys provide access to additional symbols and keys. These additional symbols and keys are colour coded in *blue* and *orange* print above the keyboard keys.

• Press the [BLUE] key to access functions or characters displayed in *blue* print on the keyboard. Press the [ORANGE] key to access functions or characters displayed in *orange* print on the keyboard.

The [SHIFT/CAPS] Key

The [SHIFT/CAPS] key is used to display uppercase alpha characters. Pressing [BLUE][SHIFT] turns the [CAPS] key on so that all alpha characters are printed in uppercase until the [BLUE][SHIFT] sequence is pressed again.

The Arrow Keys

The Arrow keys move the cursor around the screen in the direction of the arrow – up, down, left and right. The cursor is the flashing box or underline character that indicates where the next character you type will appear.

The [INS] Key

The [INS] key inserts a character at the cursor position.

The [DEL] Key

The [DEL] key erases the character at the cursor position.

The [BKSP] Key

The [BKSP] key (sometimes referred to as destructive backspace) moves the cursor one character to the left, erasing the incorrectly entered key stroke.

The [CTRL] And [ALT] Key

The [CTRL] and [ALT] keys modify the function of the next key pressed and are application dependent.

The [TAB] Key

Typically, the [TAB] key moves the cursor to the next field to the right or downward.

The [ESC] Key

Generally, this key is used as a keyboard shortcut to close the current menu, dialog box or activity and return to the previous one.

The [SPACE] Key

Pressing this key inserts a blank space between characters. In a Windows dialog box, pressing the [SPACE] key enables or disables a checkbox.

The [HOME] Key

The [HOME] key moves the cursor to the top of the form or page.

The [END] Key

The [END] key moves the cursor to the bottom of the form or page.

The [PgUp] And [PgDn] Keys

The [PgUp] key displays the previous screen of information. The [PgDn] key displays the next screen of information.

Function Keys And Macro Keys

In addition to alphanumeric keys that are directly accessible on the keyboard (no key combination is required) and the keys described in this chapter, the 8525 G2/8530 G2 keyboard is also equipped with thirty function keys and twelve macro keys.

Function keys [F1] through [F30] and Macro keys [M1] to [M12] can be used with the CE operating system or another application. All function keys and macro keys can be custom defined for each
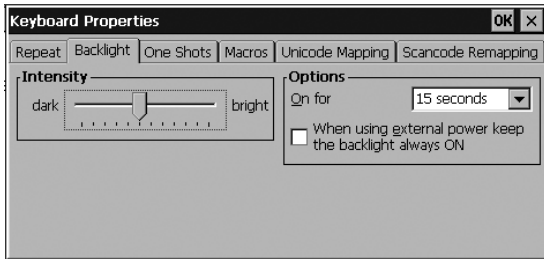
application. Refer to the manual provided with your application for details.

2.3.3 Adjusting The Keypad Backlight

Note: If you're uncertain how to access the Control Panel, refer to "The Start Menu" on page 43.

To adjust the intensity of the keypad backlight and the conditions under which this backlight is activated.

- In the *Control Panel*, choose the **Keyboard** icon.
- In the *Keyboard Properties* dialog box, open the **Backlight** tab.

Keyboard Properties					OK ✕
Repeat	Backlight	One Shots	Macros	Unicode Mapping	Scancode Remapping

Intensity

dark [————slider————] bright

Options

On for [15 seconds ▼]

☐ When using external power keep the backlight always ON

Intensity

This parameter is used to adjust the light intensity of the 8525/8530 keyboard backlight. Sliding the bar to the left darkens the keyboard backlight intensity, and sliding it to the right lightens the intensity.

ON For

The value chosen from this dropdown menu determines the duration of time that the keyboard backlight stays on when a unit is not in use.

Note: Tapping in the checkbox next to 'When using external power, keep the backlight always ON' forces the keypad backlight to
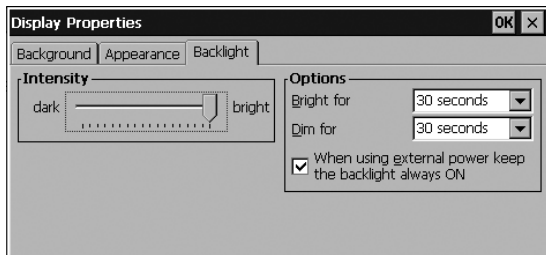
> *remain on when the unit is operating with external power
> such as a vehicle battery or A/C adaptor.*

2.4 The Display

8525 G2/8530 G2s are equipped with display backlighting to improve character visibility in low light conditions. The backlight switches on when a key is pressed or the touchscreen is tapped. The backlight intensity and the duration of time that the backlight will remain at full intensity can be specified in the *Display Properties* dialog box in the *Control Panel*.

2.4.1 Adjusting The Display Backlight

- In the *Control Panel*, choose the **Display** icon and select the **Backlight** tab.

Intensity

This parameter is used to adjust the light intensity of the backlight. Sliding the bar to the left lowers the light intensity, and sliding it to the right raises the intensity.

Bright For

The value chosen from this dropdown menu determines the duration of time that the backlight stays on at the configured intensity when a unit is not in use.

Dim For

The value chosen from this dropdown menu determines the duration of time that the backlight stays on at half the configured intensity (dimmed backlight) when a unit is not in use.
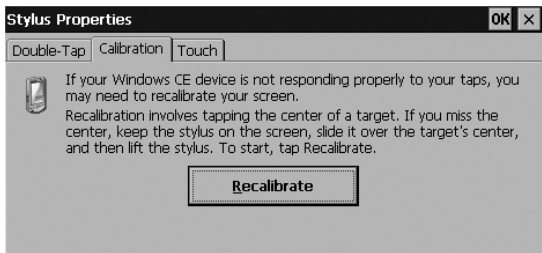
External Power Checkbox

When you select the checkbox next to *'When using external power keep the backlight always ON.'*, the backlight remains ON at the configured intensity ***when the 8525/8530 is operating with external power*** (not internal battery power). If the 8525/8530 is drawing power from a battery, this option is ignored and the other parameters defined in *Display Properties* dialog box take affect.

2.4.2   Calibrating The Touchscreen

The *Stylus Properties* dialog box in the *Control Panel* allows you to recalibrate the screen.

- In the *Control Panel*, choose the **Stylus** icon to display the *Stylus Properties* window.
- Choose the **Calibration** tab, and then tap on the **Recalibrate** button.

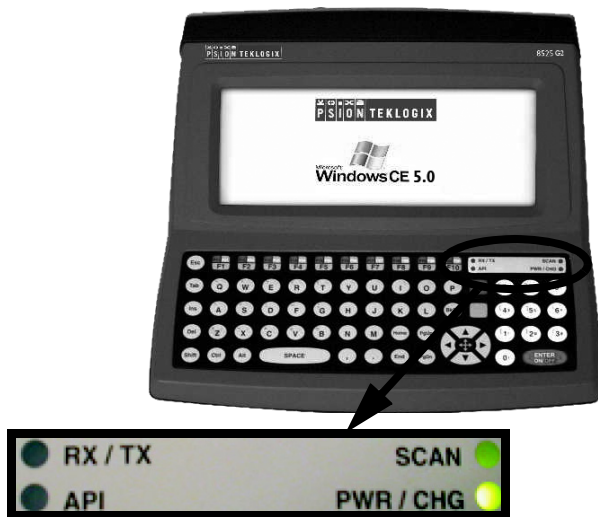- Follow the directions on the calibration screen to calibrate the screen.

2.5 8525 G2/8530 G2 Indicators

8525 G2/8530 G2s use LEDs (Light Emitting Diodes), onscreen
messages and audio tones as indicators.

2.5.1 LEDs

The 8525 G2/8530 G2 is equipped with four tri-coloured LEDs
located in the upper-right corner of the keyboard. If you have an
8530 G2 and are using the onscreen, soft keyboard, only the API and
Rx/Tx LEDs are available in the taskbar.

*Important: **You should proceed cautiously if a LED is illumi-
                nated in red; this generally indicates an abnormal
                operating condition or an active laser emission.***

PWR/CHG — Charge LED

The lower-right LED is reserved for internal charger/power status.
This LED operates as follows:

LED Behaviour	Description
Solid green	External power in use. Backup battery is present.
Slow flashing green	External power in use. Backup battery *not* present.
Blinking yellow	External power *not* in use. Unit drawing power from backup battery.

RX/TX — Radio Traffic LED

The upper-left LED on your 8525 G2/8530 G2 flashes either yellow or green to indicate when the radio transmits and receives data.

Note: Keep in mind that while 802.11b/g radios support the transmit/receive LED, not all radios support this function.

Function	Radio Traffic LED Behaviour
Radio Transmit	LED flashes yellow.
Radio Receive	LED flashes green.

Scan LED

Successful scans are indicated in two ways – with a scan LED and with an audio tone.

Function	Scan LED Behaviour
Scan in progress	LED displays solid red during scan.
Successful scan	LED displays solid green after decode. Off when scan ended.
Unsuccessful scan	LED flashes red.

API — User Application LED

This indicator is available for user-loaded custom Windows CE applications. Refer to the *8525/8530 SDK Manual* for details about this LED. Neither Windows CE nor Tekterm use this LED.

2.5.2   Onscreen Indicators

The taskbar at the bottom of the screen displays a variety of system status indicators.

The taskbar changes dynamically, and only those icons that are applicable are displayed. For example, if a radio is not installed in your unit, the radio signal icon is not displayed in the taskbar.

Windows Start Button

The Windows Start button in the taskbar displays the *Start Menu*.

Modifier Key Indicators

Note: The behaviour of the modifier keys is defined in the 'One Shot' dialog box accessible by choosing the Keyboard Icon from the Control Panel.

[SHIFT], [CTRL], [ALT], [BLUE] and [ORANGE] are modifier keys that have onscreen indicators to show when a key is active or locked. If when you press a modifier key, it is displayed in the task-bar in *lowercase* characters, this indicates that the key will remain active only until the next key is pressed. If you press a modifier key, and it is displayed in *uppercase* letters in the taskbar, this indicates

that the key is locked 'on'; the modifier key will remain active until
it is pressed again to unlock or turn it off.

Battery Icons

Battery In Use

This icon indicates that the 8525 G2/8530 G2 is drawing power from
the backup battery rather than external DC power.

Battery Very Low

When the 8525 G2/8530 G2 is running on the backup battery (rather
than external power) and the battery power is nearly depleted, this
icon is displayed in the taskbar.

Battery Charging

This battery icon indicates that the vehicle-mount is running on
external DC power, and that the backup battery is present.

External DC Power

This external DC power icon is displayed in the taskbar when
the unit is using external DC power and the backup battery is
not present.

Onscreen LEDs (8530 G2 Only)

When the 8530 G2 keyboard is removed, two onscreen-LEDs are displayed in the taskbar. The left LED acts as the API indicator, and the right LED acts as the TX/RX (transmit and receive) indicator.

These onscreen LEDs behave in the same way as those on the keyboard, changing colour to indicate different operations. For details about LED behaviour, refer to "RX/TX – Radio Traffic LED" and "API – User Application LED" on page 32.

802.11 Radio Signal Quality

Increasing radio signal quality is represented by longer, filled bars within this icon.

Good Reception   Weak Reception   No Radio Link

Narrow Band Radio Signal Quality

Increasing radio signal quality is represented by longer, filled bars within this icon.

Good Reception   Weak Reception No Radio Link

The radio signal is determined when the 8525 G2/8530 G2 receives a message. If the unit receives no messages within a second, the "no signal" icon is displayed. The signal strength icon shows the following cases: No signal, 1% to 25% bar, 26% to 50% bar, 51% to 75% bar and 75% to 100% bar.

Link Status

The Narrow Band radio displays one of three link state icons. An uppercase 'LINK' with a green background indicates the radio is powered on and that the unit is online and locked onto a channel. A lowercase 'Link' with a yellow background indicates that the radio is powered on but the 8525 G2/8530 G2 is not online or not locked onto a channel. A lowercase 'Link' with a yellow background and a red 'X' through it indicates that the radio is not powered on, is not online and is not locked onto a channel.

Security Level

Security levels can be set to limit access and prevent inadvertent changes to application settings.

Bluetooth Radio

This icon indicates that a Bluetooth radio is installed in your unit.

Input Panel Button (8530 G2 Only)

Tapping on the *Input Panel Button* in the taskbar displays a soft keyboard on the 8530 G2 screen. Use the stylus to tap on the keys. Keep in mind that the soft keyboard is not displayed when a physical keyboard is attached to the vehicle-mount.

2.5.3 Audio Indicators

Note: Care must be taken when routing cabling to the external port as audio volume can be adversely affected if these cables block the beeper.

The 8525 G2/8530 G2 beeper provides a variety of sounds and can be configured to emit a sound when a key is pressed, a keyboard character is rejected, scan input is accepted or rejected or an operator's entry does not match in a match field.

The *Volume & Properties* icon in the *Control Panel* allow you to define beeper behaviour. Refer to 'Volume And Sound Properties' in the *8525 G2/8530 G2 Vehicle-Mount Computer User Manual*, PN 8000083, for details.

Adjusting The Beeper Volume Manually

The volume keys – ◀))₊ and ◀))₋ – are represented in blue print above the [C] and [V] characters on a QWERTY keyboard.

The *increase volume* key is labelled with a plus sign ◀))₊ and the *decrease volume* key is labelled with a minus sign ◀))₋.

To adjust the beeper volume:

- Lock the [BLUE] key 'on'.
- Press the *increase volume* key ◀))₊ or the *decrease volume* key ◀))₋ until the volume meets your needs.
- Press the [BLUE] key again to 'unlock' it.

2.6 Monitoring The Network Connection

If your vehicle-mount is equipped with a wireless-LAN radio, it will typically associate with the nearest access point. The radio signal quality meter in the taskbar indicates the relative strength of the communication link.

To access the radio signal icon from the keyboard:

- Double-tap on the **radio icon** in the taskbar to display the *Wireless Statistics* dialog box.

Note: Moving in and out of the radio coverage area can have varying effects on a network session. At times, you may need to renew your connection by logging in again.

2.7 Scanning Techniques

Note: External scanners can be connected to the 8525 G2/8530 G2 tether, serial or USB device port.

- Hold the scanner at an angle. Do not hold it perpendicular to the bar code.
- Do *not* hold the scanner directly over the bar code. In this position, light can reflect back into the scanner's exit window and prevent a successful decode.
- Scan the entire bar code. If you are using a 1D or 2D scanner, make certain that the scan beam crosses every bar and space on the bar code, including the margins on either end of the symbol.
- If you are using a 2D imaging scanner, make certain the red, oval-shaped framing mark is centered within the bar code you want to scan.
- Hold the scanner farther away for larger bar codes.
- Hold the scanner closer for bar codes with bars that are close together.

2.7.1 Scan LED Indicators

The 8525 G2/8530 G2 scanner LED (the upper-right LED) indicates whether or not your scan is successful. Keep in mind that scan indicators only function when using a non-decoded 1D laser scanner connected to the tether port. All other external scanners have integrated LED indicators that are not controlled by the 8525/8530.

The LED behaves as follows:

- Scan In Progress: scan LED displays solid red colour.
- Successful Scan: scan LED displays solid green colour and turns off when the scan is ended.
- Unsuccessful scan: scan LED flashes red.

A bar code icon appears on the screen during a scan. While the scanner beam is active, the onscreen message states – SCANNING. If the scan is successful, the bar code data is displayed on the screen until the scan trigger is released.

3. Navigating In Windows CE

Graphic user interfaces like Windows CE for portable devices and desktop Windows (2000, XP, etc.) utilize 'point and click' navigation. An equivalent keyboard shortcut is also available for every 'point and click' action.

Windows CE supports the same 'point and click' user interface and keyboard shortcuts as desktop Windows with one difference – the 'point and click' action is accomplished using a touchscreen rather than a mouse. Actions can be performed using any combination of keyboard shortcuts or touchscreen tapping.

Note: Keep in mind that while the 8530 G2 is always equipped with a touchscreen, the 8525 G2 can be ordered with or without a touchscreen.

3.1 Navigating A Touchscreen

Note: If the touchscreen is not registering your screen taps accurately, it may need recalibration. Refer to "Calibrating The Touchscreen" on page 29.

A touchscreen is an *optional* feature on 8525 G2s. Units with a touchscreen are equipped with a *stylus*—a pointing tool that looks like a pen. It is used to select objects on the touchscreen.

Note: *To prevent damage to the touchscreen, use only the stylus (pen) supplied with your unit.*

To open a file, launch an applet or open a folder:

• Double-tap on the appropriate icon.

To navigate through a dialog box – for example, display the information in a tab, choose a radio button, check a checkbox and so on:

• Tap the stylus on a tab, radio button, checkbox and so on.

3.2 Navigating Using The Keyboard

Note: *Refer to "The Keyboard" on page 23 for more detail about the keyboard keys.*

If your unit is not equipped with a touchscreen or the touchscreen has been disabled, you can choose icons and navigate dialog boxes, display the desktop, and so on using the keyboard.
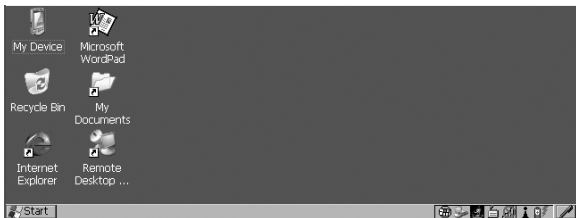
Keep in mind that unlike a desktop computer, vehicle-mounts do not support key chording (pressing two keys at the same time). You must press one key followed by the next in sequence.

Operation	Key or Key Combination
Switch between applications	[ALT] [TAB]
Open the task manager screen	[ALT] [ESC]
Move the cursor	Arrow keys
Open file, folder or icon	[ENTER]
Exit & Save	[ENTER]
Close/Exit & Do Not Save	[ESC]
Navigate Dialog Boxes	[TAB] To move cursor up: [SHIFT][TAB] To display the next 'tab' in a dialog box: [CTRL][TAB]

| Select Radio Button/ Press Button | [SPACE] |
| Go to Start Menu | [BLUE][0] |

3.3 The Startup Desktop

When the 8525 G2/8530 G2 boots up, the startup desktop is displayed. Any applications stored in the Startup folder will start up immediately. The Startup folder is located in \Windows\Startup and \Flash Disk\Startup.

3.3.1 Accessing Desktop Icons

• Use the arrow keys to highlight the icon, and press [ENTER] to launch the highlighted icon.

Note: If the arrow keys do not highlight the desktop icons, the desktop may not be selected. Press [BLUE] 0 (zero) to display the Start Menu, and choose Desktop. Now the desktop will be "in focus" and the arrow keys will highlight the icons.

If you're using a touchscreen:

• Tap an icon to select it, double-tap on it to open a dialog box or, in the case of an application icon, launch an application.

3.3.2 The Taskbar

The 8525 G2/8530 G2 has a taskbar at the bottom of the screen. It displays icons through which you can view the internal battery capacity, the radio signal quality of your unit, and so on. If the vehicle-mount is attached to a peripheral device, an associated icon is displayed. In addition, the taskbar displays the application(s) currently running on your unit and the security level assigned to your 8525 G2/8530 G2.

The taskbar also displays active modifier keys – [SHIFT], [ALT], [CTRL], [BLUE] and [ORANGE]. Keys that have been locked 'on' are displayed in *uppercase* letters.

Using The Taskbar

If you're using a keyboard:

- Press [BLUE] [0] to display the *Start Menu*.
- Press the [DOWN] arrow key to highlight the *Shortcut* menu. Press the [RIGHT] arrow key to display the sub-menu. Type [Y] to choose *System Tray* from the sub-menu.
- Press the [LEFT] and [RIGHT] arrow keys to highlight the icon in the taskbar about which you'd like more information.

A *tooltip* is displayed as each taskbar icon is highlighted. The tooltip provides the status of each icon.

- Press [ENTER] to display the associated dialog box.
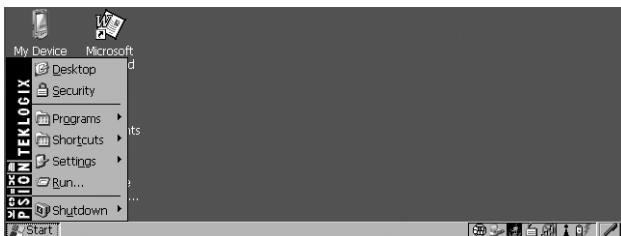
If you're using touchscreen:

- Tap and hold the stylus on an icon to display the icon's tooltip. Double-tap the icon to open the *Control Panel* dialog box associated with the icon.

3.4 The Start Menu

The *Start Menu* lists operations you can access and work with. It is available from the startup desktop or from within any application.

To display the menu:

- Press [BLUE] [0] (zero).

- Use the arrow keys to highlight a menu item, and press [ENTER], *or*

If the menu item has an underlined character:

- Type the underlined alpha character—for example, to display *Security*, type the letter **s**.

If you're using a touchscreen:

- Tap on the **Start** button in the taskbar. Tap on the item in the menu with which you want to work.

The Desktop

Choosing Desktop from the *Start Menu* displays the 8525 G2/8530 G2 desktop.

Security Settings

To assign a security level:

- Choose **Security** from the *Start Menu*.

Security Level   OK ✕

○ Supervisor   ● User

Password:

[   ]

[Set Password...]   [Configure]

- Choose a security level from the dialog box. To allow access to all the *Start Menu* and taskbar options, choose the *Supervisor* security level.
- Type the appropriate password in the *Password:* textbox, and press [ENTER].

To change the password:

Note: Keep in mind that this is the same password as that assigned through the Password Control Panel applet.
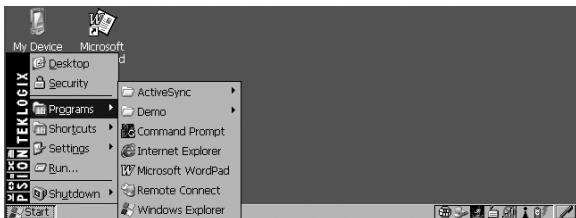
- Choose a **security level**, and enter the existing password in the *Password* field.
- Choose the [Set Password] button.
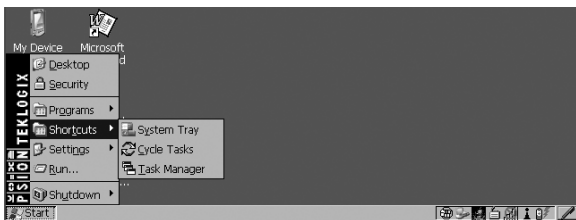
In the *Password Properties* dialog box:

- Type the new password in the *Password:* textbox, and retype the new password in the *Confirm Password:* textbox.

Programs

The *Programs* menu contains a sub-menu of programs available on your vehicle-mount.

Shortcuts

The System Tray

If your unit is not equipped with a touchscreen or if it has been disabled, the *System Tray* option in the *Shortcuts* sub-menu allows access to the icons in the taskbar at the bottom of the screen. The taskbar displays indicators such as a battery capacity gauge and the security level. These indicators are attached to dialog boxes that provide additional information.

• Choose **System Tray** from the *Start Menu*.

When *System Tray* is chosen, the taskbar icons become accessible. To display the dialog box attached to an icon:

- Use the [LEFT] and [RIGHT] arrow keys to highlight an icon—for example, the security icon.
- Press [ENTER] to display the security level dialog box.

If you're using a touchscreen, you don't need to use *System Tray option*. You have direct access to the icons in the taskbar.

- Tap and hold the stylus on a taskbar icon to display a *tooltip* – a brief description of the status of the icon.

To display the dialog box associated with an icon:

- Double-tap on the icon with which you want to work.

Cycle Tasks

When *Cycle Tasks* is selected (and the Task Manager is not open), you can cycle through active applications.
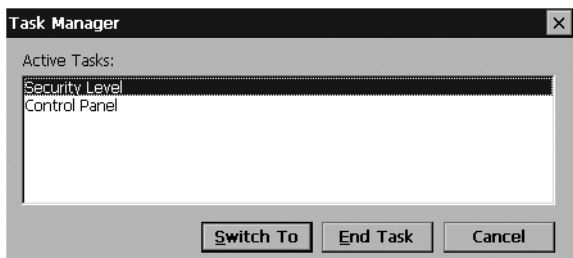
- Press [BLUE] [0] (zero) [T] [C] to cycle to the next active task, *or*
  Press [ALT][TAB].

The Task Manager

The *Task Manager* option allows you to switch to another task or to end an active task. To display the task manager window:
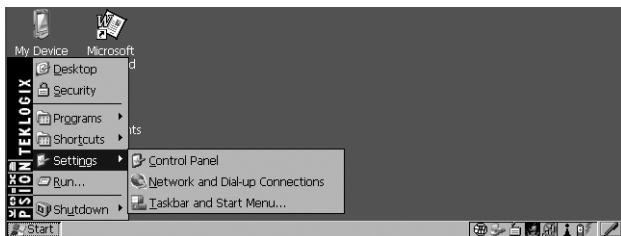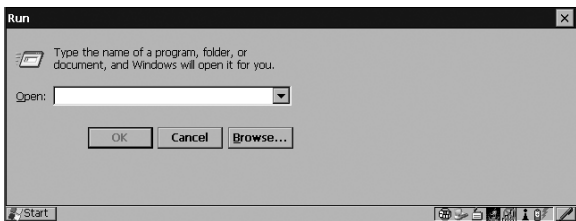
- Press [BLUE] [0] (zero) [T] [T], *or*

Press [ALT][ESC].

Task Manager   ✕

Active Tasks:

Security Level
Control Panel

[<u>S</u>witch To]   [<u>E</u>nd Task]   [Cancel]

Settings

The *Settings* menu provides access to the *Control Panel* applets, lets you configure your radio *(Network and Dial-up Connections)* and customize the *Taskbar and Start Menu*.
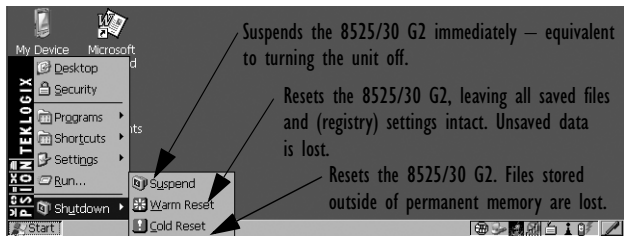
Run

Choosing the *Run* option displays a dialog box in which you can enter the name of the program, folder or document you want to open.

Shutdown

Suspends the 8525/30 G2 immediately — equivalent to turning the unit off.

Resets the 8525/30 G2, leaving all saved files and (registry) settings intact. Unsaved data is lost.

Resets the 8525/30 G2. Files stored outside of permanent memory are lost.
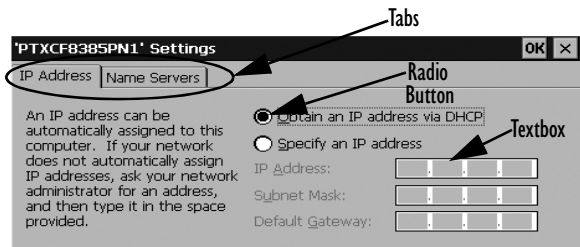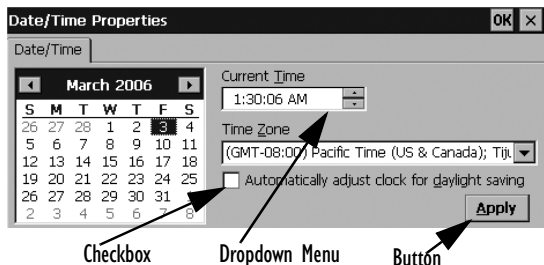
Note: *The Shutdown menu varies depending on the security level chosen. At 'Supervisor' security level, a sub-menu like the one in the sample screen is displayed. At 'User' security level, choosing 'Suspend' causes the computer to shut down immediately. A sub-menu is not available.*

At 'Teklogix' security level, an additional option is available in the sub-menu—Bootloader. This option behaves like cold-reset, except that the 8525 G2/8530 G2 starts Bootloader rather than Windows CE.

3.5 Using A Dialog Box

A dialog box appears when you need to make selections and enter further information.

Checkbox   Dropdown Menu   Button

Tabs
Radio Button
Textbox

Important: If you're using a touchscreen, use the stylus to tap on an element in a dialog box to select or deselect it, display dropdown menus, save your selections, and so on. If you're using a keyboard, follow the directions in this section.

Dialog boxes contain one or more of the following elements:

Tab: A tab separates different elements of a dialog box. Press the [TAB] key until a tab in the dialog box is highlighted. To display adjoining tabs, press the [RIGHT] or [LEFT] arrow key.

To display the information in the next tab from anywhere in the window, press [CTRL] [TAB].

Textbox: A textbox requires that you type information. Press the [TAB] key to highlight the textbox and then type the appropriate information.

Dropdown: This type of menu is identified by up and down arrows next to the dropdown menu to indicate that additional options are available. Press the [TAB] key to highlight the menu, and use the arrow keys on your keyboard to cycle through the options.

Checkbox: This box allows you to select or deselect an option. To select or deselect a checkbox, press the [TAB] key to highlight the checkbox, and press the [SPACE] key to select or deselect it.

Radio buttons: These buttons allow you to choose from a number of options. For example, in the sample screen under section 3.5 on page 49, you can choose to 'Obtain an IP address via DHCP' or 'Specify an IP address'. Press the [TAB] key to highlight a radio button option, and then select a radio button by pressing the arrow keys to highlight the appropriate option.

Buttons: This type of button allows you to 'Save', 'Delete' and so on the options you've chosen in a dialog box. Use the [TAB] key to highlight the button you want to use. Press the [ENTER] key to activate it.

Saving Your Choices: Once you've made all your changes, press the [ENTER] key to save your changes and exit the window.

Note: A dialog box item that is displayed in grey text indicates that it is not currently available.

4. General Maintenance

4.1 Caring For The Touchscreen

The top of the touchscreen is a thin, flexible polyester plastic sheet with a conductive coating on the inside. The polyester can be permanently damaged by harsh chemicals and is susceptible to abrasions and scratches. Using sharp objects on the touchscreen can scratch or cut the plastic, or crack the internal conductive coating.

If the touchscreen is used in harsh environments, consider applying a disposable screen protector (PN 1008009). These covers reduce the clarity of the display slightly but will dramatically extend the useful life of the touchscreen. When they become scratched and abraded, they are easily removed and replaced.

The chemicals listed below must not come into contact with the touchscreen:

- mustard, ketchup,
- sodium hydroxide,
- concentrated caustic solutions,
- benzyl alcohol, and
- concentrated acids.

4.2 Cleaning The 8525 G2/8530 G2

Important: Do not immerse the unit in water. Dampen a soft cloth with mild detergent to wipe the unit clean.

- Use *only* mild detergent or soapy water to clean the vehicle-mount unit.
- Avoid abrasive cleaners, solvents or strong chemicals for cleaning.
- To clean ink marks from the keypad and touchscreen, use isopropyl alcohol.

5. Support Services & Worldwide Offices

Psion Teklogix provides a complete range of product support services to its customers worldwide. These services include technical support and product repairs.

5.1 Technical Support

Technical Support for Mobile Computing Products is provided via e-mail through the Psion Teklogix customer and partner extranets. To reach the website, go to *www.psionteklogix.com* and click on the appropriate Teknet link on the home page. Then click on the "Log-in" button or the "Register" button, depending on whether you have previously registered for Teknet. Once you have logged in, search for the "Support Request Form".

5.2 Product Repairs

International
For technical support outside of Canada or the U.S.A., please contact your local Psion Teklogix office listed on our worldwide website:

   http://www.psionteklogix.com

Click on the heading labelled "Contacts" to choose a Psion Teklogix technical support representative closest to you.

Canada/U.S.A
Canadian and U.S. customers can receive access to repair services, by calling the toll-free number below, or via our secure website (see *Technical Support*, above).

Note: *Before calling the toll-free number, have your Psion Teklogix customer number or trouble ticket number available.*

   Voice: 1 800 387-8898 (press option "2")
   Fax: 1 905 812-6304

5.3 Worldwide Offices

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