



# **GD300 User Guide**



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Identification: GD300

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### Trademark and Patent Notice

- Itronix is a registered trademark of General Dynamics Itronix.
- Android is a trademark of Google Inc.

### Compliance Statements

#### 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 television 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.

### FCC CAUTION

To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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 interference received, including interference that may cause undesired operation.

### WARNINGS AND CAUTIONS

**WARNING** It is important that only authorized General Dynamics Itronix personnel attempt repairs on General Dynamics Itronix equipment as this might void any maintenance contract with your company. Unauthorized service personnel might be subject to shock hazard on some General Dynamics Itronix equipment if removal of protective covers is attempted.

The product you have purchased is powered by a rechargeable battery. The battery is recyclable and, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Do not crush the battery or place it in a fire. Check with your local solid-waste officials for details on recycling options or proper disposal.

**CAUTION** Internal components of the GD300 computer will be damaged if exposed to contaminants. When the rubberized end cap or any access panel is open on the computer, shield the unit from all contaminants such as liquids, rain, snow, and dust.

In the event of problems, you should contact your equipment supplier in the first instance.

This product is intended to be supplied by a Listed Power Unit and output rated 5V DC input voltage, 1A.

### Safety Information

- **CAUTION** This computer is designed (only) to be used with the Manufacturer provided dedicated AC Adapter or USB Adapter.
- Unplug the computer from the power outlet before cleaning. Use a damp cloth for cleaning. Aerosols, solvents, or strong detergents are not recommended cleaning solutions and may void your warranty. For system decontamination recommendations please contact your service technician.
- Do not place this product near or over a radiator or heat register.
- Do not store the computer at temperatures above 167°F (75°C) or below -67°F (-55°C).
- Do not step on or place anything on the power cord.
- If you use the computer with an extension cord, ensure that the

total ampere ratings of all the devices sharing the extension do not exceed the rating of the extension cord or the rating of the wall outlet.

- Do not push foreign objects into the computer through any of the slots or openings. Dangerous voltages are present, which could cause electric shock, fire or damage sensitive components.
- When charging, it is recommended you use a power strip with a built-in surge protector. Do not use inferior extension cords as this may result in damage to your computer.
- FAA regulations require that all transmit/receive devices be turned off during flight. If you have radios in your computer (including GPS) and your computer is equipped with a radio on/off switch, please use it to turn your radios off during flight. If you have radios and you do not have a switch to turn the radios off, either leave your computer off during flight or contact your help desk for assistance.

### *Service and Upgrade Safety and Precautions*

- Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks and may void your warranty. Refer all servicing to qualified service personnel.
- Unplug this product from the wall outlet and refer servicing to authorized service personnel under the following conditions:
  - When the power cord or plug is damaged or frayed.
  - If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.
  - If the product exhibits a distinct change in performance, indicating a need for service.
- Do not upgrade or service this computer without prior authorization from the manufacturer. Damage caused by servicing that is not authorized may void your warranty.
- Before performing any manufacturer authorized service or upgrade, first follow these instructions:
  - Prevent damage from static electricity by following ESD precautions.
  - Place the computer on a clean, flat surface.
  - Turn off the computer and disconnect the power supply.
  - Undock the computer if it is in a docking device.
  - Disconnect any attached peripherals.
  - Disconnect any attached network or telecommunication line.
  - Remove any media in your computer's slots or bays.

### *Battery Safety and Precautions*

- **WARNING!** The battery is not a user replaceable item and there is danger of explosion if the battery is incorrectly replaced. Attempting to remove or replace the battery would void the warranty. Contact your service representative if the battery needs replacement.
- Follow **Battery Tips** for use and storage.

### Standard Parts

- GD300 Wearable Computer with rubberized cap
- AC adapter with USB power cord and USB-Y cable
- Display Wipe
- Quick Start Guide

You may have additional components or peripherals if you ordered these items separately. Check your packing slip for a complete list of items included in your package.

### Product Specifications

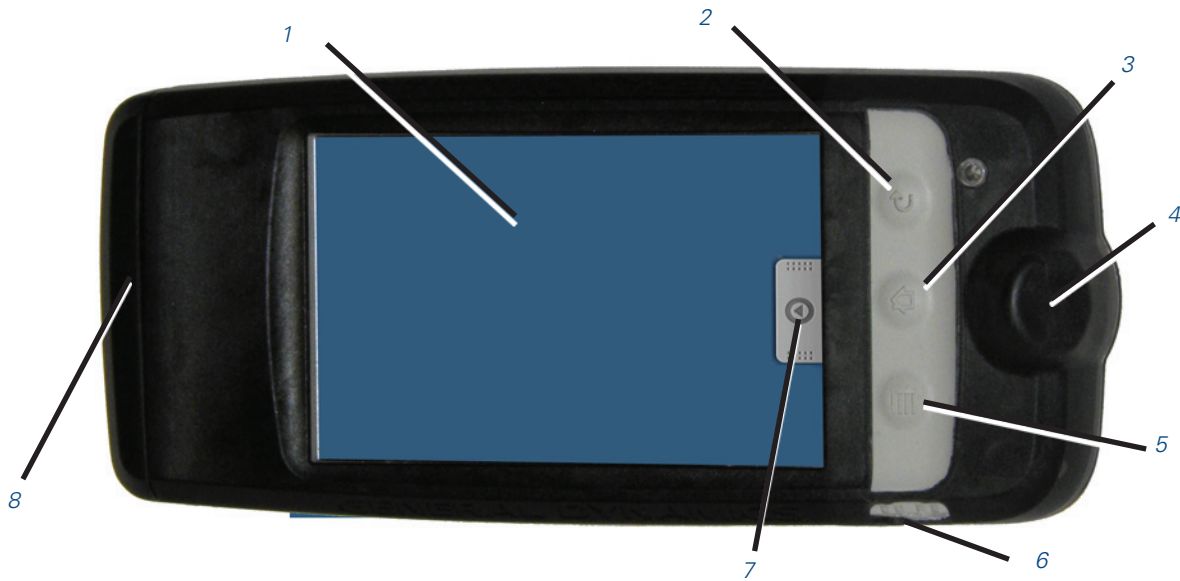
- Size: 5.9" (L) x 2.6 (W) x .8" (H)
- Weight: 8oz.
- Processor: 600MHz ARM® Cortex™ A8
- Operating System: Android™ operating system based on Linux® kernel.
- **Display:** Full color 3.5" WVGA sunlight readable display with glove-friendly touch screen.
- Rugged case. Meets or exceeds MIL-STD 810G and IP54.
- Memory: 256MB DDR memory, 8GB on-board Flash and microSD card slot (card not provided).
- **Radio:** Fully integrated high sensitivity SiRF Star IV GPS with high gain quadrafilar-helix antenna and auto load moving map with pan/zoom.
- **Battery:** 1550 mAH single cell Lithium-Ion battery with more than 8 hours typical run time.
- Expansion: microSD slot, Mini-USB 2.0, expansion docking connector.
- One-year limited product warranty.

### Optional Equipment and Features

You can tailor your computing experience by purchasing custom options, accessories and applications. Contact your service representative for more information. Here are just a few:

- Custom Applications
- Radio Interface Kit (RIK)
- Custom Docking Solutions to add drop-in expandability and connectivity
- Wrist Mounting Kit so you can wear the device
- Carry case options
- NVIS filters (ITAR controlled accessory)
- Display overlays

Front View



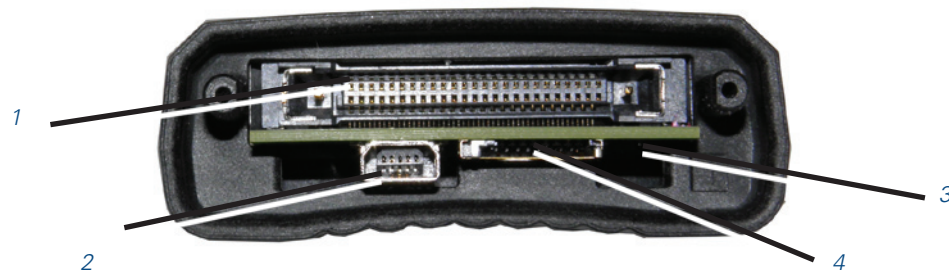
#	Feature	Description
1	<b>Display</b>	3.5" WVGA outdoor readable touch screen display (800x480)
2	Return Button	Press to return to the previous screen.
3	Home Button	Press to return to the Home screen.
4	<b>Integrated GPS Radio Antenna</b>	Global Positioning System (GPS) radio uses satellite reference points to calculate positions that are typically accurate within five meters.
5	Menu Button	Press this to open menu options for the current screen. This varies by screen and application.
6	Power Button	Press to toggle the computer in and out of standby mode. Press and hold for two seconds to power on the computer or to open the power off menu.  To perform a hard reset, press and hold the <b>POWER</b> and <b>RETURN</b> buttons for 8 to 10 seconds.
7	Application Button	Tap this button on your touch screen to open the application menu.
8	Rubberized Cap	Remove this cap to access the MicroSD slot or expansion docking connector. A port cover in the cap enables you to access the Mini-USB 2.0 OTG port.

Back View



#	Feature	Description
1	Wrist Strap Slots	Attach the optional wrist strap to these slots. This enables you to wear the GD300 on either arm.

Ports and Connectors View



#	Ports and Connectors	Connection
1	Expansion Docking Connector	Compatible with the Radio Interface Kits (RIKs)
2	Mini USB 2.0 OTG Port	Connect AC Power adapter. This USB 2.0 port supports On-The-Go (OTG). It is accessible by opening the rubberized Mini USB port cover. <b>NOTE</b> The USB connector current limit is 100mA. Devices requiring more than 100 mA will not function when plugged into this connector.
3	Battery Charge LED	Lights red when the GD300 battery is charging from external power.
4	MicroSD Slot	For data expansion.

Accessing Ports and Connectors

Pull off the rubberized cap on the top of the computer to access these ports and connectors.

**CAUTION** Protect the computer from dust and moisture while the cap is off.



## Touch Screen Display

The touch screen display is designed for readability in a wide variety of environments, both indoors and outdoors.

### *Using the Touch Screen*

- Move your thumb or finger across the touch screen to scroll.
- Tap on the touch screen to make selections.

### *Touch Screen Precautions*

The touch screen is a sensitive device. Take proper care and follow precautions to avoid damaging the touch screen.

- Never use foreign objects such as ball point pens or hand tools for touch screen input; they will cause damage to the screen surface.
- Clean the touch screen with water or a 50/50 mixture of water and isopropyl alcohol. Do not use other cleaning products or chemicals as they may damage the touch screen.
- Do not drag abrasive dust or dirt across the touch screen surface as this can abrade the touch screen and degrade clarity.
- It is recommended that you use the optional touch screen overlay for environments that are inherently dusty, dirty or subjected to chemical contamination.

### *Adjusting Display Brightness*

To manually change display brightness and backlight settings press the **MENU** button; then select **Settings, Sound & Display**. Select **Brightness** and use the slider to adjust your screen brightness level.

### *Screen Timeout*

To conserve battery life the display automatically turns off after a period of inactivity. To change the screen timeout period press the **MENU** button; then open the **Settings** menu and select **Sound & Display**. Then select **Screen timeout** and choose your preferred timeout period: 15 seconds, 30 seconds, 1 minute, 2 minutes, 10 minutes or 30 minutes. The default timeout period is 1 minute.

Press the **POWER** button to turn on the screen after an automatic timeout.

### *Screen Cleaning*

The computer display, with proper usage and cleaning, will last for the anticipated field life of the product without significant degradation in viewability or function.

- For mild cleaning tasks use the micro-fiber cleaning cloth provided with your unit. Tougher contaminants such as oily fingerprints may require light dampening with clean water. Try this method before trying stronger solutions.
- For tougher cleaning tasks, use the cleaning cloth with an equal (50/50) mixture of isopropyl alcohol and water.
- Never use paper products such as paper towels or wipes to clean the display surface. Paper products are abrasive and act much like fine sandpaper, causing irreversible damage to the screen surface and anti-glare hard coat.
- Replacement cleaning cloths and approved display cleaning solutions are available as optional field kits. Contact your support representative to order.

### *Screen Overlay*

A screen overlay is recommended for environments with high contaminant potential. Remove contaminants from its surface following the display cleaning methods noted above. A screen overlay:

- provides protection from damage caused by foreign objects or surface contaminants and maximized the useful life of the screen surface.
- is replaceable if worn, scratched or otherwise damaged.
- has minimal impact on display brightness and readability.
- is available as an optional field kit. Contact your support representative to order.

### Attaching Power

Your GD300 can be powered by battery, or by attaching the provided AC power adapter or USB-Y cable to the Mini-USB 2.0 OTG port.

**NOTE** It is recommended you charge the battery via the AC power adapter. While you may plug the USB power adapter into a powered computer via the USB-Y cable, this method may take up to 16 hours to fully charge the GD300.

#### *To Attach AC Power*

**CAUTION** Only use the provided dedicated AC adapter or USB power adapter to power this computer.

1. Open the rubberized Mini USB port cover on the top of the computer.
2. Plug in the supplied AC or USB power adapter into the Mini USB port.
3. Plug the other end of the cable into a USB charger (optional), or into an AC power outlet.

The Battery Charge icon, located on the computer's display, will light while the battery is charging. The Battery Charge LED, located under the rubberized cap, will indicate the battery is charging.

#### *To Attach the GD300 to a PC*

**CAUTION** Only use the provided USB-Y cable if attaching the GD300 to a PC. Attach the unit in the following order:

1. Plug both ports on the USB-Y cable into the PC first.
2. Then, connect the GD300 to the USB-Y cable.

### Attaching Devices

**CAUTION** Before connecting any peripherals, make sure they are approved for use with your computer and read all related operation and safety instructions. If you use equipment that is not approved for use with this computer you may cause your computer to malfunction, or to emit or receive electromagnetic radiation in excess of local regulations and may void your warranty.

To add connectivity, you may attach approved external devices to the Mini-USB port or expansion docking connector.

#### *Custom Docking Solutions*

We offer custom docking solutions so you can tailor any expansion needs with drop-in convenience. Talk to your service representative about office docks and vehicle docks.



The GD300 includes an integrated Global Positioning System (GPS) radio. GPS is a worldwide radio-navigation system formed from a constellation of satellites and their ground stations. The GPS radio uses these satellites as reference points to calculate positions accurate within five meters.

### Antennas

The GD300 has an embedded antenna to support the GPS radio. It requires no user action.

**CAUTION** Use only the supplied or an approved antenna(s). Use of unauthorized antennas, modifications, or attachments may void your warranty and could impair call quality, damage the radio, or result in violation of FCC regulations.

**CAUTION** FAA regulations require that all transmit/receive devices be turned off during flight. Press the **POWER** button and select **Power Off** to turn off the computer during flight.

### Maximizing GPS Performance

#### *In any Location*

- Performance can vary significantly at different times of the day.
- Weather can affect performance.

#### *On the Street*

- Try all sides of a building to see which side provides the strongest radio signal.
- Move from under trees. Pine needles absorb radio signals more than leaves.
- Move away from overhead electrical wires.
- Radio signals reflect off other buildings. Even in the signal shadow, the signal could be reflected back by another building.
- When wearing or holding the unit, position the antenna so it points toward the sky.
- The signal is 1-2 feet across; therefore, moving several feet in any direction may give different results.

#### *Inside a Building*

- Move toward windows.
- Signals do not penetrate ground; therefore, there will probably be no signal in basements.
- Reflective coatings on windows reflect radio signals. Try the side of the building that is least likely to have coated windows.
- Closed metal blinds can reflect radio signals.
- Dropped ceilings sometimes hide an accumulation of electrical cable.

### *Electromagnetic Interference (EMI)*

Electromagnetic Interference (EMI) is generated by switching circuitry closets or Un-interruptable Power Source (UPS) systems found near computer rooms and can block the radio signal.

Look for significant sources of electromagnetic radiation. Problems may emanate from a source between your location and the radio base station.

### Radio Interface Kit (optional)

The optional Radio Interface Kit (RIK) enables you to quickly and easily connect to military or commercial radios via the expansion docking connector. Contact your support representative to order.

### The Battery

- The computer uses a “smart” Lithium-Ion battery that typically provides more than 8 hours of operation.
- The battery charge indicator on your display shows approximately how much charge is left in the battery. It is recommended you plug in a charger and charge the battery before it becomes critically low.

### Battery and Temperature

The battery is most efficient at room temperature, 20°C (68°F). While it operates in a wide temperature range, battery capacity is affected by higher or lower temperatures. However, storing Li-Ion batteries at low temperatures reduces aging effects.

Temperature	Approximate Capacity
0°C (32°F)	80%
20°C (68°F)	100%
45°C (113°F)	100%

**NOTE** While the battery may not provide 100% capacity at temperature extremes, its capacity returns to normal when its temperature normalizes around 20°C (68°F).

### Battery Charging

When you use the USB charger to connect your GD300 to a power outlet, the battery begins to recharge automatically.

If your computer is suspended a fully discharged battery takes about 3 hours to recharge. If your computer is turned on it may take four to six (4-6) hours to recharge the battery.

	Charging
System On	4-6 hours
System in Standby	3 hours

**NOTES** A fully charged battery can power the GD300 for approximately 8 hours, depending on usage patterns.

Battery charging is disabled below 32° F (0°C) and above 113° F (45°C) to protect the lithium ion cells in the battery.

### When to Replace the Battery

Over time the battery’s capacity gradually decreases. Contact your service representative about battery replacement if your battery no longer provides 70% of its original rated capacity.

**WARNING** The battery is not a user replaceable item and there is danger of explosion if the battery is incorrectly replaced. Batteries should only be replaced by qualified service personnel using only approved batteries.

### Battery Tips

#### Tip 1. Avoid excessive heat and cold

- Your battery will last longer during the day if it is used, charged and stored between 50°F and 86°F (10°C and 30°C).
- The recommended charging temperature is around 68°F (20°C).

**NOTE** Your battery may not last as long through the day if you charge it at higher or lower temperatures.

- Avoid exposure to extreme temperatures for long periods, which can shorten battery charge life and potentially damage the battery.

#### How your battery behaves in warm conditions

To prevent possible battery damage, the battery may not charge if its temperature is above 113°F (45°C), such as in a closed, unattended vehicle during the summer. If possible, turn off or suspend your computer while the battery is charging in a warm environment to avoid over-heating. In warmer temperatures, your battery may take much longer to fully charge.

#### How your battery behaves in cold conditions

When using a battery in cold conditions, the battery capacity may drain significantly faster. To prevent possible damage to the battery, the battery may not charge if its temperature is below 32°F (0°C), such as in a closed, unattended vehicle during the winter. In cooler temperatures, your battery can take much longer to fully charge.

#### Tip 2. Prevent wasted power

- Turn off or suspend your computer when you are not using it.
- Reduce screen brightness settings to conserve power. To change your brightness settings, select **Settings, Display**.
- When running on battery power, make sure your system suspends automatically after a few minutes of inactivity. To set this, press the **MENU** button; then select **Settings, Sound & Display, Screen timeout** and choose your preferred timeout period

**NOTE** GPS, custom applications, or modified system settings may affect battery life.

- Unplug peripherals when you are not using them, since they may draw power from the system even when not in use.

#### Tip 3. Get a good charge

- Your computer charges more quickly when in standby.
- In warmer or cooler temperatures, your battery can take much longer to fully charge.
- Partial discharge/charge cycles are preferred compared to draining the battery completely and recharging.
- Charge the computer at the end of each work day.

## Maintenance and Storage

The GD300 is rugged and weather resistant. Handle it with the normal care required by any sophisticated electronic equipment and the computer will provide reliable service even under harsh field conditions. Follow the guidelines in this section to care for your computer.

### Taking Care of Your Computer

- Follow all warnings and instructions noted in this documentation.
- Do not use or store the computer near a source of heat.
- If you charge the computer with an extension cord, ensure that the total ampere ratings of all the devices sharing the extension do not exceed the rating of the extension cord or the rating of the wall outlet.
- Never push foreign objects into the computer through any slots or openings.

**WARNING** Dangerous voltages are present, which could cause electric shock or fire, or damage sensitive components.

- For best results, use a power strip with a built-in surge protector. Do not use inferior extension cords as this may result in damage to your computer.
- Turn off the computer when you are not using it.
- Charge the battery daily or whenever its capacity is low.
- Avoid using the computer where it will be exposed to extreme vibration.
- Do not subject the computer to magnetic fields.
- Do not intentionally spill liquid on the computer.
- Do not subject the computer to extreme shock and vibration.
- Do not place objects on top of the computer.
- Periodically inspect the computer and accessories for wear, damage, loose or missing parts.

**NOTE** Identifying and correcting potential problems early can help reduce the need to return the unit for service.

### Taking care of your AC adapter

- Do not connect the adapter to any other device.
- Do not step on the power cord or place anything on top of it. Carefully route the power cord and any cables away from all potential traffic.
- When unplugging the power cord, do not pull on the cord itself but pull on the plug.
- The total ampere ratings of the equipment plugged in should not exceed the ampere rating of the cord if you are using an extension cord.
- The total current rating of all equipment plugged into a single wall outlet should not exceed the fuse rating.

### Servicing

Contact your dealer or see your service technician if any of the following occurs:

- The computer has been dropped and the body has been damaged.
- Liquid has been spilled into the product.
- The computer does not operate normally.

See the **Service and Support** section for more information.

### Storing

If you plan to store the computer, save files and data, remove any attached devices, and exit all applications. Then press the **POWER** button and select the **Power Off** option.

### Cleaning Your Computer

**WARNING** Use a damp cloth for cleaning. Aerosols, solvents or strong detergents are not recommended cleaning solutions and may void your warranty. For system decontamination recommendations please contact your support representative.

### Outside Case

1. Disconnect external power and turn off the computer.
2. Add a small amount of water to a soft cloth and clean the computer case. Do not use paper products because they can scratch the surface.
3. Wipe off any excess liquid with a soft cloth.

### Display

Use a soft, dry cloth. In some cases, you can use a small amount of water to remove streaks or smears. For difficult display cleaning tasks, use a 50/50 mixture of isopropyl alcohol and water. Do not use paper products because they can scratch the screen.

**NOTE** General Dynamics Itronix offers a display cleaning kit that you can order via the **Website**.

### Connectors

If connector pins get dirty, clean the connector with a cotton swab dipped in electronics grade isopropyl alcohol.

*We are committed to providing you world class support services that ensure the lowest total cost of ownership for your hardware investment. The Services program will help you maximize end user productivity and decrease overall system operating cost.*

### Client Care Center (CCC)

The General Dynamics Itronix Client Care Center provides world class service with a single entry point of access to meet all your needs including:

- Troubleshooting and RMA origination
- Dispatch of field support staff
- Wireless carrier service activation
- Hardware performance information
- RMA status checks on service unit and warranty/service parts orders
- New and refurbished platform, accessory and add-on orders
- Trial unit orders and status updates
- Proof of delivery status updates for service and new unit orders
- International new unit and accessory, peripheral and service parts orders
- Centralized access for all invoicing and finance related issues

Most of these services are available through the ServeNet web based system.

Go to the **Support** section of our website and select ServeNet Login for more information.

### *Services Expertise*

The Technical Services and Client Services Account Management staff provide support with expertise that spans hardware platforms, industry applications and third party solutions. They regularly visit customers to garner feedback and input and provide training and post-installation support. For more information on our comprehensive service programs or current support phone numbers and email addresses, [click here](#).

### Product Support - Updates

To see if there are any updates for your computer and get the most from your product, go to the **Support** section of our website and select product downloads.

**NOTE** Downloads are listed by model and/or product number (GD300).

*This section is designed to help you determine and fix problems you might encounter while operating the GD300 computer. Try the following things in order:*

- First look through the categories in this section for a solution.
- If you are having a problem with a computer application, use the Help that comes with the application to find a solution.
- If you still cannot resolve your problem, contact the help desk at your organization.

### Battery Troubleshooting

#### *The battery does not charge*

- Check the connection and power to the charger.
- Check the charger connection to the GD300 and verify that it is detecting external power. The battery charge indicator will light while the computer is charging.
- If the rubberized cap is removed the Battery Charge LED is visible on the circuit board. It lights red to indicate the battery is charging.

#### *The battery doesn't last very long*

- Ensure that the battery indicates fully charged (100%) following an over-night charge.
- As your battery ages, its maximum capacity naturally decreases, and even the best maintained batteries eventually need to be retired. Consider replacing the battery if you are not getting the usage you need from it.

### Touch Screen Display

#### *The display performance is slow*

The temperature may be too cold. Move the computer to a warmer operating environment.

#### *I can't read the display*

- Adjust the brightness level. Press the **MENU** button; then select **Settings, Sound & Display**. Select **Brightness** and use the slider to adjust your screen brightness level.
- The automatic power-saving mode may have shut off (suspended) the computer. Press the **POWER** button to resume.

### Miscellaneous Troubleshooting

#### *The computer shuts off unexpectedly*

The computer has entered suspend mode. Press any key to resume from the standby state. Press the **POWER** button to resume from the hibernate state.

The battery capacity may be low. Connect external power to charge the battery.

#### *The computer won't turn on*

- Remove any peripheral devices.
- Connect external power to charge the battery if it is not charged.
- If you are using the AC adapter, check the electrical outlet you are using to make sure it is working properly.
- If the GD300 computer does not turn on, restart the computer by holding down the **POWER** button and **BACK** button at the same time.

#### *RF Communication Issues*

- If coverage is historically good at this location, check the signal strength. Reposition the computer slightly to increase signal strength. Wait approximately five minutes. Determine if there is RF activity. Applications provided with RF devices generally provide diagnostic capability.
- If not resolved, exit all applications, restart the applications, and try RF communications again.
- If not resolved, connect external power and perform a restart.
- Restart applications and try RF communications again.