

Contacts

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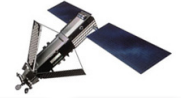
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PRECAUTIONS:

Please read and understand this User's Manual before installing your ComCenter II. Careless or incorrect installation can degrade performance, damage both new and existing equipment, and incur unexpected network airtime charges.

Safety Information

1. FAA Regulations

ASE products are not FAA-approved and are not intended for aircraft use.

2. Exposure to Radio Frequency Signals

Your Iridium-designed satellite unit is a low power radio transmitter and receiver. When it is ON, it receives and sends out radio frequency (RF) signals.

International agencies have set standards and recommendations for the protection of public exposure to RF electromagnetic energy:

- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996
- Verband Deutscher Elektrotechniker (VDE) DIN-0848
- United States Federal Commission, Radio Frequency Exposure Guidelines (1996)
- National Radiological Protection Board of the United Kingdom, GS 11, 1988
- American National Standards Institute (ANSI) IEEE C95, 1-1992
- National Council on Radiation Protection and Measurements (NCRP) Report 86
- Department of Health and Welfare Canada, Safety Code 6

These standards are based on extensive scientific review. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the updated ANSI standard.

The design of your phone complies with these standards when used as described under "Unit Operation."

3. Antenna Care

Use only the antenna supplied by your service provider or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could degrade performance or damage the phone and may violate local agency regulations.

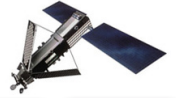
4. Unit Operation

Do not operate the unit when a person is within 4 inches (10 centimeters) of the antenna. A person or object within 4 inches (10 centimeters) of the antenna could impair call quality and may cause the unit to operate at a higher power level than necessary and expose that person to RF energy in excess of that established by the FCC RF Exposure Guidelines.

5. Driving

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Observe the following guidelines when using your phone while driving:

- Give full attention to driving; driving safely is your first responsibility.
- Use hands-free phone operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.



Safety Information (Continued)

6. Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain equipment may not be shielded against RF signals from your Iridium-designed satellite unit.

7. Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of 6 inches be maintained between a wireless phone's antenna and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

PERSONS WITH PACEMAKERS

- Should ALWAYS keep the Iridium-designed satellite unit more than six inches from their pacemaker when the unit is turned ON.
- Should turn the unit OFF immediately if you have any reason to suspect that interference is taking place.

8. Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your unit OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

9. Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

10. Posted Facilities

Turn your unit OFF in any facilities where posted notices so require.

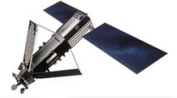
11. Blasting Areas

To avoid interfering with blasting operations, turn your unit OFF when in a "blasting area" or in areas posted "Turn off two-way radio." Obey all signs and instructions.

12. Potentially Explosive Atmospheres

Turn your unit OFF and disconnect the power supply when you are in any area with a potentially explosive atmosphere. Obey all signs and instructions. Sparks from your battery or power source in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are not always clearly marked. They include, but are not limited to: fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; areas where fuel odors are present (for example, if a gas/propane leak occurs in a car or home); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you normally would be advised to turn off your vehicle engine.



Safety Information (Continued)

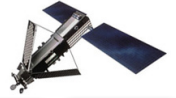
13. For Vehicles Equipped With Airbags

An air bag inflates with great force. Do NOT place objects, including both installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

14. Important Notes for PABX System Users

If using the ComCenter II with a PABX system, the following precautions must be followed to prevent damage to your unit.

The ComCenter II emulates a standard land-line wall jack and generates the required operating and ringing voltages. Connect to a PABX as either a central office (CO) or trunk line. Never connect the ComCenter II to a PABX as an extension or damage to the PABX or ComCenter II may result.



Product Overview

The ComCenter II Series brings your Iridium satellite link indoors to provide secure data and/or voice communication anywhere in the world. This new series includes an Ethernet interface allowing IP-addressable network connectivity for global satellite data transfer and remote system control. Ethernet connectivity brings you unprecedented new features like ASE SatChat SMS messaging and M2M Port Forwarding. These versatile and enhanced voice and data features make the ComCenter II the ideal solution for a wide variety of remote communications applications.

ENHANCED VOICE



- RJ-11 (POTS) for PABX, standard phones, or wireless base station
- RJ-45 Intelligent Privacy Handset interface for voice or texting
- SmartDial simplified dialing sequence
- Audio Status Tones

ENHANCED DATA

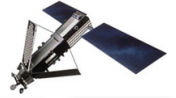


- Ethernet connectivity provides versatile IP-based satellite data interface
- IP Port Forwarding for machine-to-machine (M2M) and VSAT Diagnostics
- Configurable periodic reports ensure and enhance overall system resilience
- GPS option with configurable periodic reports provides low-cost tracking solution
- Third Party Apps: e-mail, weather info, blogs

ENHANCED EXTRAS



- SMS TEXTING with Embedded ASE SatChat
- Real-time diagnostic, event, and call logs
- Crew calling and scratch card support
- Highly visible status indicators
- Built-in audible ringer
- Wide operating range: 10-36VDC
- Universal AC/DC and Vehicle DC power adapters included



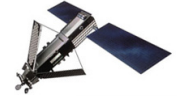
Simple System Setup and Verification

Installation of the ComCenter II is simple and easy. Once installed, the ComCenter II can be easily configured and tailored to your application by accessing settings 3 different ways;

1. POTS/RJ-11 via setup commands.
2. Privacy Handset via setup commands.
3. Embedded webpage via mouse clicks and dialog boxes.

System verification, operation and status details are available in 4 ways;

1. Highly visible LED indicators.
2. Audible tones on the POTS/RJ-11 interface.
3. Text messages on the Privacy Handset LCD display.
4. Embedded webpage settings and diagnostics.

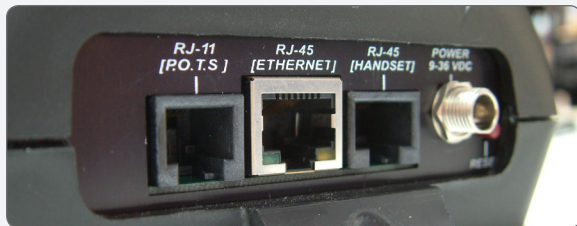


Models and Configurations

To meet various applications and system installations, the ComCenter II is available in two main configurations, each with optional configurations and accessories;

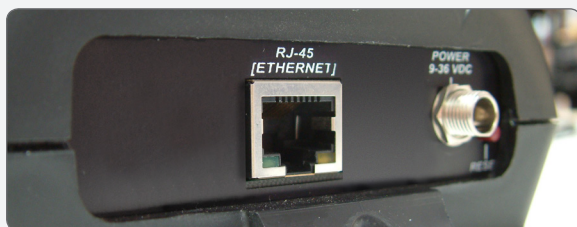
Voice and Data – Model ASE-MC08

This model does it all! Voice, Data, and SMS Texting. Perfect for Resilience, business continuity, corporate communications with remote personnel, data backup, and VSAT back door control.



Data Only – Model ASE-MC07

Model ASE-MC07 is a lower-cost, reduced feature model that eliminates voice interfaces and features and targets data-only applications. The Ethernet port allows network connectivity for global satellite data transfer and remote system control. Perfect for Resilience, data backup, and VSAT back door control.



Optional Configurations and Accessories;

Integrated GPS

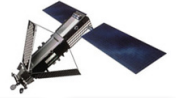
Model ASE-MC0xG



Swivel RAM Mount with Privacy Handset

Model ASE-MC0x-H





Installation and General setup

IMPORTANT:

For proper operation, the SIM card installed in your ComCenter II must be ACTIVATED (by your Service Provider) and UNLOCKED (pin code turned off). If the PIN code has not been turned off by your Service Provider, refer to Accessing ComCenter II Settings for a command to turn it off. Note that for security reasons, the ComCenter II can only turn off the Iridium default PIN code.

Mounting your Fixed Station Terminal

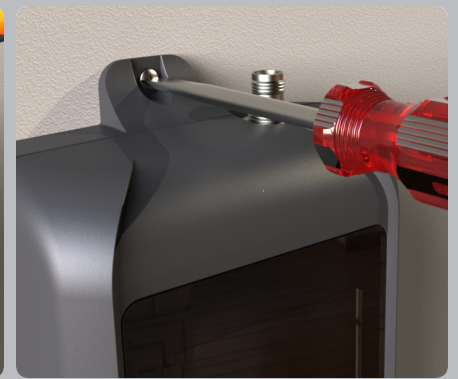
Every installation is unique, and as such, ASE has provided a number of alternate mounting configurations. Additional hardware may be developed in the future that is not illustrated in this manual. Please contact an ASE representative or your local reseller for more information.

IMPORTANT:

If you are in doubt about the mounting steps or the connectivity at any stage of this installation, please contact an ASE representative for assistance. They will be able to guide you through your specific installation options more clearly.

Wall Mounting

First position the device at the proper height and then mark the screw locations using a pencil. Next, anchor the mounting screws on the wall leaving about 0.25" of the head exposed. Hang the device on the exposed screw heads and then tighten until snug.

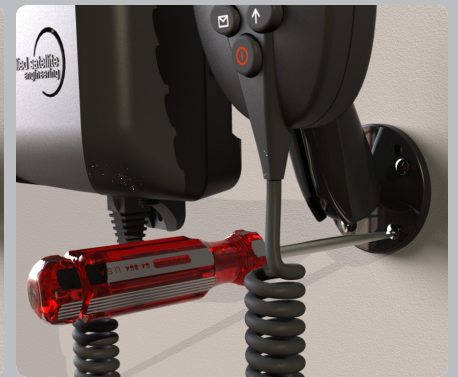


IMPORTANT:

Different wall materials require different mounting hardware. The proper screws / anchors should be selected according to the materials used on your wall.

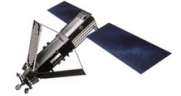
Swivel Mounting (optional kit compatible with all models)

First Affix the Round Base to a sturdy surface using anchors and/or screws as appropriate for the material. Next Attach the ComCenter II to the Mounting Plate using the center keyholes. Finally, plug the privacy Handset into the ComCenter II for use.



IMPORTANT:

Different wall materials require different mounting hardware. The proper screws / anchors should be selected according to the materials used on your wall.



Common Wire Connections

You may not need to make every accessory connection that you see outlined on the following pages. However, the steps shown on this page are generally the most common and should be read carefully.

IMPORTANT:

If you are in doubt about the mounting options or the connectivity at any stage of this installation, please contact an ASE representative for assistance. They will be able to guide you through your specific installation options more clearly.

Attach External Antenna

The ComCenter II accepts a male TNC connector. Screw the antenna cable on to the ComCenter II and tighten securely.



IMPORTANT:

Do not exceed cable lengths outlined in the troubleshooting section of this manual. Keep cable splices to a minimum.

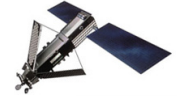
Attach Power Input Jack

Align the pin of the cord with the receptacle and press the plug firmly in place. Next twist the collar to "lock" the cord to the ComCenter II.



IMPORTANT:

The Lock collar on this cable should only be tightened "finger-tight". Do not use pliers as this will overtighten the cable and potential damage the connector housing.



Optional Accessory Connections

The following connections are optional and may not apply to every installation

Connecting to POTS/RJ-11 (Model ASE-MC08 Only)

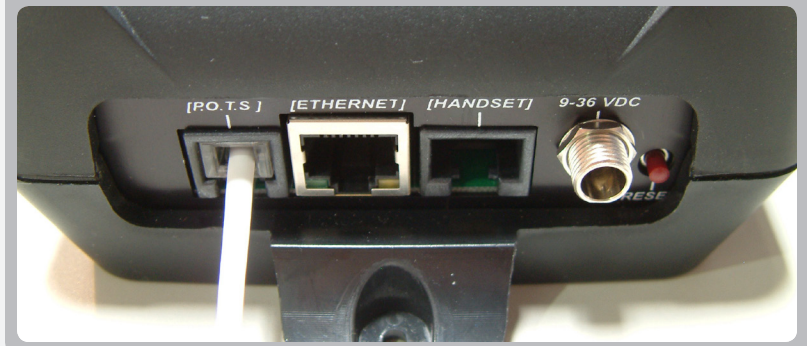
WARNING TO PABX System USERS:

If using the ComCenter II with a PABX system, the following precautions must be followed to prevent damaging your unit. The ComCenter II emulates a standard land line wall jack and generates the required operating and ringing voltages. Connect the PABX as either a central office (CO) or trunk line. Never connect the ComCenter II to a PABX as an extension or damage to the PABX and/or ComCenter II may occur.

Single Analog Phone or Base Station with Wireless Handsets

Connect your optional RJ-11/POTS equipment to this port. Typical equipment used with the ComCenter II include;

- Single analog phone or office speakerphone
- Base station with wireless handsets
- PABX to corporate telecom infrastructure (see PABX connection warning)



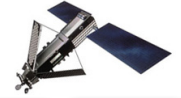
Attach Privacy Handset (Model ASE-MC08 Only)

Connect your Privacy Intelligent Handset to the RJ-45 jack as shown. The plug should be pressed into the socket until an audible 'click' is heard; this indicates the plug is fully seated and locked in position.

IMPORTANT:

This port uses a common RJ45 connector, but it should be noted that it will NOT support a connection to anything other than an Privacy Intelligent Handset. Additionally, only one handset is supported.





CONNECTING TO YOUR COMPUTER OR NETWORK VIA ETHERNET (RJ-45)

The ComCenter II's Ethernet port provides a powerful IP-addressable data connection to your local area network (LAN) or directly to your computer. For maximum connection flexibility, the ComCenter II supports the following connection options;

1. DIRECT or fixed IP address for advanced users.
2. DHCP CLIENT for automatic network integration (default).
3. DHCP SERVER for direct PC or Laptop connection.

DIRECT MODE

For single node or networks with fixed IP addresses

The direct mode allows you to manually assign a fixed IP address to the ComCenter II. The ComCenter II's default IP address is 192.168.1.100 but can be changed if needed. Direct mode is typically for advanced users who need to assign specific IP addresses to support their network configuration.

DHCP CLIENT MODE

For multi-node networks that have a DHCP server (router)

This is the most common network connection mode. You connect the ComCenter II to your network like any other Ethernet device and it gets assigned an IP address automatically. This is typically done by an Ethernet router in the network that also provides this DHCP server function.

DHCP SERVER MODE

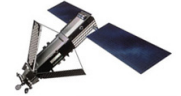
For single node / multi-node networks w/o a router or other DHCP server

In this mode, the ComCenter II assigns IP addresses to network peripherals, normally done by an Ethernet router, and retains its own default IP address of 192.168.1.100. This mode is a convenient way to connect directly to a laptop without the need for a router.

CHANGING MODES

The default mode is DHCP Client but can be changed in a number of ways;

1. With the reset button located on the ComCenter II's connector panel.
2. Entering codes with the Privacy Handset.
3. Entering codes with the connected POTS/RJ-11 equipment.
4. Clicking on the desired mode via the embedded webpage.

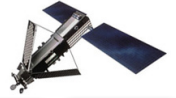


Finding your ComCenter II with ASE Device Manager

The ASE Device Manager utility is included with your ComCenter II on CD-ROM. Install on your host computer and let the ASE Device Manager simplify your network installation.

Simply click the FIND button and the ASE Device Manager will scan your network for ASE Devices. Found device(s) will then be listed in the drop-down Profile box. You can now select the device from the profile box and open its unique webpage to access its data features, or connect your PC to the Internet directly through the device.

The screenshot shows the ASE Device Manager v0.4 application window. It features a menu bar with 'File', 'Tools', and 'Help'. The main interface is divided into three sections: 'Network Configuration' with a 'Profile' dropdown set to 'ORIGINAL' and buttons for 'Activate', 'Remove', 'Advanced...', and 'Website...'; 'Auto Find ComCenter(s)' with a 'Find' button and the instruction 'Click Find to automatically search your network for ComCenter Devices.'; and 'Manually Add ComCenter' with an 'IP Address' input field and an 'Add' button. An 'Exit' button is located at the bottom right. A status bar at the bottom indicates 'Searching network for ComCenter(s)...'. Two annotations with arrows point to the 'Find' button: one says 'Click FIND' and the other says 'And ASE will search your network for ASE devices'.



Changing the Ethernet Connection Mode Using the Panel Button:

Initial press of the panel button will display the current mode by blinking all 4 status LEDs on the ComCenter II to indicate the mode setting.

- 1 Blink = DIRECT (ComCenter uses fixed IP address 192.168.1.100)
- 2 Blinks = DHCP Client (factory default, your network assigns IP address)
- 3 Blinks = DHCP Server (ComCenter assigns IP address to clients and sets self to 192.168.1.100)

Pressing and releasing the button will indicate and retain the current mode setting. Pressing and holding the button will sequence through each mode. Release the button when the blink pattern matches the desired mode. Unit will reboot with this new setting. Press and release the button to confirm your mode setting is correct.



Changing the Ethernet Connection Mode Using Privacy Handset:

Remove from hang-up cup and press the following keys (each command begins with the star (*) character);

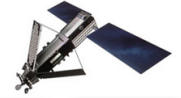
- *610 = DIRECT (1 blink)
- *611 = DHCP Client (2 blinks)
- *612 = DHCP Server (3 blinks)

When changing modes with the Privacy Handset, the display on the Privacy Handset will show the mode setting and the status LEDs will also blink to indicate the mode setting.



ADDITIONAL USEFUL COMMANDS USING THE PRIVACY HANDSET

- *994 displays current mode setting and blinks the status LEDs accordingly.
- *955 displays current IP address setting.



Changing the Ethernet Connection Mode **Using POTS/RJ-11:**

The same commands are used with the POTS/RJ-11 as with the Privacy Handset. However, because there is no display of information on the POTS/RJ-11, watch the blink pattern on the status LEDs and listen to audible beeps to confirm the mode setting. To change mode, take the POTS/RJ-11 phone off-hook and press the following keys;

*610 = DIRECT (1 blink, 1 beep)

*611 = DHCP Client (2 blinks, 2 beeps)

*612 = DHCP Server (3 blinks, 3 beeps)

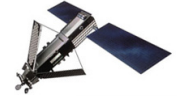
Additional useful commands using POTS/RJ-11;

*994 blinks the status LEDs and gives audible beeps according to mode setting.



Changing the Ethernet Connection Mode **Using Embedded Webpage:**

Accessing the embedded webpage in the ComCenter II may not be possible unless the default DHCP Client mode is compatible with your specific network. Once you are able to access the ComCenter II's webpage, the mode can be changed by clicking on the CONFIGURE button. This page will allow you to change modes. CAUTION: changing modes will likely cause you to lose access to the webpage until the network or direct connection is also configured to this new mode.



Testing your setup

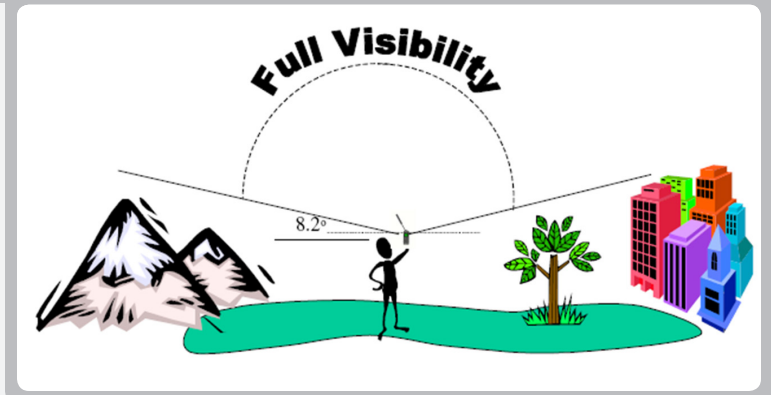
After installation and applying power, the ComCenter II's visual and audible indicators let you know status and health of your overall system.

Checking Signal Strength and Satellite Visibility

With proper antenna installation and visibility to the Iridium constellation, the ComCenter II's GREEN satellite indicator will be illuminated and on solid (not blinking). Allow 5 to 10 minutes after power is first applied for system initialization and network registration.

The ComCenter II's embedded webpage also includes event logs and real-time diagnostics that are useful for monitoring system operation and checking signal strength during installation and over time.

See the troubleshooting section if this indicator continues to blink or blinks periodically.



IMPORTANT:

Iridium's low earth orbit satellite constellation requires antennas to have a 360° view of the sky with no obstructions 8.2° above the horizon in any direction.

POTS/RJ-11 Voice Connection

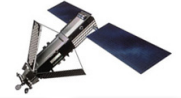
When the optional POTS connected equipment goes off-hook, a dial tone will be present indicating the system is operating properly and a call can be placed. Otherwise, a busy signal or other error tone sequence will be present. The blue phone LED indicator will also light when a voice call is in process.



Privacy Handset Voice Connection

Text messages on the optional Privacy Handset's display provides system status. When READY is displayed, the system is ready to make a call. Remove the Privacy Handset from the hang-up cup and a dial tone will be present and a call can be placed. The blue phone LED indicator will also light when a voice call is in process.





Data Connection

The ComCenter II contains an embedded webpage that provides system status info as well as diagnostic utilities. The status bar will say READY when the system is operating properly and a data connection can be established. Clicking the CONNECT button will automatically dial Iridium's ISP and establish a PPP connection. Once connected, the status bar will say ON LINE, the blue data LED indicator on the ComCenter II will light, and the CONNECT button will change to DISCONNECT. Click the DISCONNECT button to terminate the data session.

Accessing System Settings

System settings can be accessed and changed in several ways to allow access depending on what interface(s) you are using.

Changeable settings include;

SmartDial 911 USA

Crew ID protected access

Captain's card installed

Periodic reporting

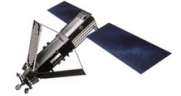
Base station ringer volume adjust or disable

Voice volume adjust (POTS/RJ11 access only)

Event log and diagnostic monitoring (embedded webpage only)

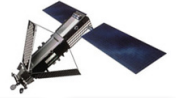
Restore to factory defaults

The embedded webpage provides simple selection and dialog boxes for easy setting changes. Both the POTS/RJ-11 and Privacy Handset interfaces provide numeric commands to change settings as shown in the following table.



Accessing ComCenter II Settings (RJ-11 and privacy intelligent handset)

OPTION	SEQUENCE	DESCRIPTION
Volume	* 20 ├── 1 Lowest ├── 2 ├── 3 ├── 4 └── 5 Highest	Press *20 and then press 1 through 5 to change the volume level sent to the handset. Press 1 to adjust the volume to its lowest level, and 5 to adjust it to its highest.
US 911	* 50 ├── 0 Disabled └── 1 Enabled	Press *500 to toggle USA 911 dialing off and *501 to toggle it on. By default the ComCenter II is set to USA 911 On. We strongly recommend leaving 911 dialing on if you are a United States customer. Be sure to read the sections below discussing emergency 911 calls. This setting partially overrides SmartDial recognition of country codes and allows United States callers to simply type 911 to access the emergency system. (If this setting is off, then calls starting with "91" are recognized as dialing the country code for India.)
Network Loss Alert	* 51 ├── 0 Disabled └── 1 Enabled	Press *510 to turn off network loss alert (system default setting). Press *511 to turn on network loss alert. ComCenter II speaker will beep whenever satellite network is lost or restored.
Base Station Ringer	* 5 2 ├── 0 Off ├── 1 Low ├── 2 Med └── 3 High	Press *52, and then the volume setting you prefer for the base station ringer. Pressing *520 will silence the ringer for incoming calls but will not affect equipment connected to the RJ-11 port. They will still ring even with the base station ringer disabled.
Captain's Sim	* 53 ├── 0 Disabled └── 1 Enabled	Press *530 for standard SIM card. Press *531 for Captain's SIM.
Network Mode	* 61 ├── 0 Direct ├── 1 Client └── 2 Server	Sets the network mode with 0 being DIRECT, 1 being DHCP Client and 2 being DHCP Server
Phone Book	* 7 , ###	Press *7 to reach the Phone Book that resides in the SIM card, then enter the three-digit QuickDial number for the entry you wish to dial. Hang up to exit this menu. See the section below "Managing Your Phone Book" to learn more about this option.
Firmware Version	* 9 9 1	Displays the Dock model and version numbers on privacy handset
Serial Number	* 9 9 2	Displays the ComCenter II Serial Number on Privacy Handset
IMEI	* 9 9 3	Displays the Iridium IMEI number on the privacy handset
Network Mode	* 99 ├── 4 IP Mode └── 5 Address	Press *994 to displays the Network IP Mode (Direct, DHCP Client or DHCP Server) Pressing *995 displays the Network IP Address, and blinks LEDs according to setting).
Turn PIN off	* 1 1 1 1	Unlocks SIM by turning the default Iridium PIN code off. The ComCenter II requires the PIN be turned off to access the satellites.
Restore Defaults	* 1 2 3 4 5	Restores default settings (excluding network settings)



General Use - Voice Calls (ASE-MC08 Only)

ASE's SmartDial technology makes dialing simple. SmartDial automatically identifies the country code and knows how many digits are required for that country code. Once the correct number of digits have been entered, dialing commences automatically. SmartDial de-activates itself when the standard '00' Iridium dialing sequence is detected. Pressing "#" to send is then required to initiate the call.

- **Placing a call with POTS/RJ-11** Take the POTS/RJ-11 phone off-hook and listen for dial tone. When dial tone is present, simply enter the country code, area code, and phone number. SmartDial will automatically place the call when the correct number of digits are entered and you will hear the Iridium 'boop' sound until the call connects.

Examples using SmartDial:

USA call: 1(3-digit area code)(7-digit phone number)

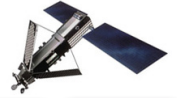
Iridium ISU call: 8816(8-digit phone number)

Examples bypassing SmartDial:

USA call: 011(3-digit area code)(7-digit phone number)(# to send)

Iridium ISU call: 0118816(8-digit phone number)(# to send)

- **Answering a call with POTS/RJ-11** POTS/RJ-11 phone connected to the ComCenter II will automatically ring when an incoming call is pending. Simply take off-hook to answer.
- **Placing a call with Privacy Handset** Remove Privacy Handset from hang-up cup and listen for dial tone. If hang-up cup is not used, press the OK button to toggle it on and off hook. When dial tone is present, simply enter the country code, area code, and phone number. SmartDial will automatically place the call when the correct number of digits are entered and you will hear the Iridium 'boop' sound until the call connects.
- **Answering a call with Privacy Handset** The Privacy Handset will automatically ring when an incoming call is pending. To answer, remove Privacy Handset from hang-up cup and press the OK button.

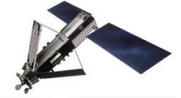


General Use - Text Messaging

- **Text messaging with ASE SatChat** ASE's powerful and convenient SatChat provides simple SMS text messaging dialogue from any Ethernet connected device such as network computers, wireless laptops, and even iPhones, and iPads. This included feature is available by accessing the ComCenter II's embedded webpage and works similar to short email messages and blog dialogues. ASE Satchat messages can be sent to and received from other SMS enabled Iridium equipment and cell phones, as well as standard email addresses.
- **Text messaging with Privacy Handset (appendix)** Remove the Privacy Handset from the hang-up cup and press the MENU button to access the Iridium-based SMS text messaging features. Note that the inherent Iridium-based MENU features contained in the Privacy Handset follow the previous generation 9505A handset protocols and operate differently than the 9555 handset. See appendix for SMS messaging commands as they apply to the Privacy Handset.

General Use - Data Calls

The ComCenter II simplifies data connections via its embedded webpage. Depending on the type of connection, a simple button click from this webpage will initiate an Iridium PPP session or peer-to-peer connection. Port forwarding features are also available for advanced users.



SPECIAL FEATURES

POTS/RJ-11 PORT

This port provides a versatile satellite link to the standard equipment you're already familiar with. RJ-11 connected equipment can be located more than a mile away from the ComCenter II, solving antenna location problems and minimizing costly antenna runs.

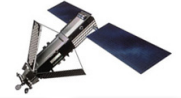
Besides being a voice link, this interface has the following additional features;

- **VOICE CONNECT WITH SMARTDIAL.** SmartDial simplifies satellite dialing sequences by converting familiar land line dialing to satellite dialing. But if you prefer satellite dialing, SmartDial will automatically detect and disable itself.
- **PABX & WIRELESS BASE STATION.** Typical RJ-11 applications include trunk line interface to standard multi-user PABX systems, base station with single or multiple wireless handsets, or a single analog phone powered entirely by the ComCenter II for resilience planning communications back up.
- **ACCESS TO SYSTEM SETTINGS.** ComCenter II system configuration and settings are accessible via this port.
- **STATUS AND ERROR TONES.** Since most RJ-11 connected equipment is located a great distance from the ComCenter II, specific audible tones let you know system status at all times.

ETHERNET PORT

This port opens up tremendous network and peripheral connection possibilities. Ethernet connection to the ComCenter II also gives you access to unique features and applications contained in its internal webpage. Features of this port include;

- **DATA CONNECT WITH ASE WEBPAGE.** Use your favorite web browser to access the ComCenter II's embedded webpage. Data connections from the ComCenter II's webpage take just a simple click of the mouse.
- **DIRECT & WIRELESS ROUTER CONNECT.** Connect directly to a single computer, drop onto your network, or use a wireless router for optimum convenience.
- **ASE SATCHAT.** Simple yet powerful SMS text messaging application available from the embedded webpage.
- **ASE PORT FORWARDING.** This special feature requires two ComCenter IIs in most cases to easily solve difficult Iridium-linked M2M applications. Details are beyond the scope of this manual. Please contact ASE for more information.
- **SECURITY PIN CODES.** Another feature included in the embedded webpage is the option to set PIN codes to prevent unauthorized use. Voice and data access become disabled and the ComCenter II will then prompt the user for a valid PIN code.
- **STATUS AND ERROR DISPLAY.** The ComCenter II's embedded webpage has a real time status bar showing current state of the system and Iridium network.
- **ACCESS TO SYSTEM SETTINGS AND DIAGNOSTICS.** ComCenter II system configuration and settings are accessible via the embedded webpage. This webpage also includes diagnostics and system logs useful for installation confirmation and general use stats.



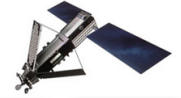
SPECIAL FEATURES (continued)

EMBEDDED WEB PAGE

As an extension of the Ethernet port, the ComCenter II provides unique and power features via its internal, embedded web pages. System information is displayed in the header of all web pages, including; system IMEI, Firmware Versions, Your Phone Number (see setting Your Phone Number below) and the current System Status.

The Embedded web pages provide the following ASE special features;

- **ASE SATCHAT:** Provides SMS chatting service to other Iridium phones, email addresses or cell phones (check with cell phone provider for international support).
- **ASE IRIDIUM-IRIDIUM CONNECT:** Initiates an internet connection via the Iridium ISP. The ComCenter II will perform the dial-up and PPP authentication. Once status reports ONLINE you have established your Internet Connection.
- **ASE COMCENTER SETUP:** Provides system configuration including your phone number, periodic messages, configuration options, and user PIN codes. Further and advanced setup options are available if you proceed to the MODEM web-link. Note: When PIN Access Required is set to ON, access to this page requires one of the 10 user set PIN codes previously setup on this page.
- **SAVE AND RESTORE:** You must click save to accept all changes to the configuration. Restore will restore the factory default configuration.
- **YOUR PHONE NUMBER:** During installation of your ComCenter, enter Your Phone Number as a convenient method to store this number.
- **PERIODIC MESSAGES:** When configured can provide automatic, periodic messages to validate system status. For example, a message of “Emergency Communication System is OK” could be configured to be sent to resilienceManager@yourcompany.com every week. Note: SMS messages incur extra airtime charge. Check with your airtime provider for more details.
- **PIN ACCESS REQUIRED:** [On | Off] Activates ComCenter II PIN codes as described below.
- **HANDSET VOLUME:** [5 Levels]
- **RINGER IN BASE:** [OFF | Low | Med | High]
- **CAPTAINS CARD:** [Yes | No] If your SIM card is the type called “Captain’s Card”, then this option must be set.
- **USA 911:** [On | Off] Allows 911 calls in US. Note: 911 conflicts with country code for India. If using SmartDial pattern for calls to India, the USA911 can be turned off.
- **PIN CODES:** These assigned PIN Codes allow Post-paid access to the Iridium service for systems using a SIM card type “Captain’s Card”. The PIN must be a 7-digit number. If fewer digits are stored, the system expects pre-pended 0’s to complete the 7-digits. For example: PIN 85260 would require entering 0085260 when accessing system.
- **ASE PEER-TO-PEER:** Provides Peer-to-Peer configuration and connection. Setup includes Dial-up number, or RAS (Remote Answer) enable, and Port Forwarding.
- **SAVE :** You must click save to accept all changes to the configuration.
- **DIAL-UP NUMBER:** This is the number of the device to be called when using this modem as the calling device (MO) when initiating a Peer-to-Peer session.
- **RAS:** Enable the Remote Answer Service in the modem when using this modem as the called device (MT) in a Peer-to-Peer session.



SPECIAL FEATURES (continued)

- **PORT FORWARDING:** IP addresses within the local network of the remote site can be accessed using Port Forwarding by assigning local IP addresses to unique ports. The syntax is WanPort, Local IP address:Port. For example to allow port forward access to a web-server running on local device 192.168.1.52:80, the setup would be 80,192.1.52:80.
- **ASE EVENT LOG:** Displays a list of the last 100 system events. These events include phone usage and SMS usage.
- **ASE NETWORK MONITOR:** Updates list of signal strength and other system status information every 15 seconds.
- **RESTART SYSTEM:** Provides a mechanism for remote system reboot.

PRIVACY HANDSET PORT

This port supports and enhances Iridium's Intelligent DPL Privacy Handset. This optional handset includes a latching hang-up cup and provides a secure, tethered Iridium connection that can be extended up to 25 feet with standard CAT5 cable. The ComCenter II enhances this handset with unique features including system status and error messages as well as system info and settings access.

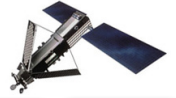
- **VOICE CONNECT WITH SMARTDIAL.** SmartDial simplifies satellite dialing sequences by converting familiar land line dialing to satellite dialing. But if you prefer satellite dialing, SmartDial will automatically detect and disable itself.
- **SMS TEXTING** Text messaging using Iridium-based commands available under the MENU selection. See appendix for commands and usage.
- **ACCESS TO SYSTEM SETTINGS.** ComCenter II system configuration and settings are accessible via this port via the Privacy Handset.
- **STATUS AND ERROR DISPLAY.** The ComCenter II uses the Privacy Handset to display system status and general info.

VISUAL STATUS INDICATORS

ComCenter II has built-in, highly visible LED status indicators that provide system status and alerts

WIDE OPERATING POWER.

The ComCenter II operates over a wide range of DC input (10VDC to 36VDC). Both AC/DC and vehicle DC adapters are included.



SPECIFICATIONS

Electrical Specifications

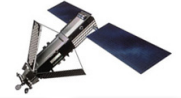
Operating Voltage	10 - 36 VDC
Power Consumption	4 Watts (Idle/Standby)
	9 Watts (Avg Active)
	15 Watts (Peak)

Mechanical Specifications

Dimensions	(L)22.8cm x (W)12.7cm x (H)6.3cm
	(L)9.0in x (W)5.0in x (H)2.5in
Weight	0.9kg (2.0 lbs)
Mounting	Wall Mount

Environmental Specifications

Operating Temp Range	-30°C to +60°C
Exposure	Indoor, protected location per IEC 60945



Troubleshooting

This table gives maximum cable runs for common LMR cable types. These maximum lengths are based on Iridium's specified max signal loss of 3db from antenna to handset, and assumes there are no splices or couplers in the cable run.

Helpful Tip: Each connector/splice will reduce signal strength by approximately 0.5dB.

Type	Max Length
LMR-195	20 feet
LMR-240	30 feet
LMR-400	58 feet
LMR-600	90 feet
LMR-900	133 feet
LMR-1200	176 feet

Installation and Startup Troubleshooting

SYMPTOM:

Satellite icon (green) LED never stays on solid and continues to blink.

CAUSE:

ComCenter II is unable to find or register with the Iridium network.

RESOLUTION:

Verify SIM card is installed, activated and unlocked. Verify antenna is not obstructed and that cable length or max dB loss has not been exceeded.

SYMPTOM:

Busy Signal present on RJ-11 analog phone

CAUSE:

Another symptom that the ComCenter II is unable to find or register with the Iridium network.

RESOLUTION:

Verify SIM card is installed, activated and unlocked. Verify antenna is not obstructed and that cable length or max dB loss has not been exceeded.

SYMPTOM:

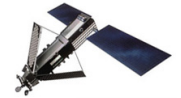
Signal strength drops when a call is placed

CAUSE:

Check antenna location for obstructions, a 360 degree clear view of the sky is required for proper operation. Antenna cable length exceeded or there are too many splices in cable run.

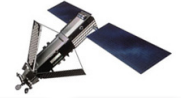
RESOLUTION:

Re-position antenna away from obstructions, verify cable length has not been exceeded, eliminate unnecessary cable splices.



Status and Error Tones (RJ-11/POTS interface only)

DESCRIPTION	TONE NAME	TONE PATTERN
Powering Up Initialization	NOT READY TONE	<long tone><bleep>...repeat
Searching for Network	NOT READY TONE	<long tone><bleep>...repeat
Found Network	FOUND NETWORK TONE	<bleep><bleep><bleep><bleep><bleep>
Ready to Dial	DIAL TONE	<continuous dial tone>
Enter ASE Access PIN CODE	PIN CODE BEFORE DIAL	<pause><bleep>...repeat
Device on Data Call	BUSY TONE	<continuous busy tone>
Poor Signal during Call	POOR SIGNAL	<bleep><bleep>
Missing SIM Card	ALERT TONE + BEEP COUNT	Alert Tone + 2 beeps
Locked SIM Card	ALERT TONE + BEEP COUNT	Alert Tone + 3 beeps
Registration Denied	ALERT TONE + BEEP COUNT	Alert Tone + 4 beeps
Bad SIM Card	ALERT TONE + BEEP COUNT	Alert Tone + 4 beeps



ASE Limited Warranty

1. Coverage and Duration

Applied Satellite Engineering, Inc. (ASE) warrants that its new satellite subscriber radiotelephone products and accessories (the "Product") shall be free from defects in materials and workmanship for a period of twelve (12) months from the date such Product is delivered to the first end-user purchaser or first lessee (the "Purchaser"), or the date such Products are first placed into satellite subscriber service, whichever occurs earliest. ASE, at its option, shall at no charge to Purchaser, either repair or replace the Product, or refund the purchase price of a Product that does not conform to this warranty, provided the Product is returned in accordance with the instructions set out below and within the warranty period. These remedies are Purchaser's exclusive remedies under this warranty. Repair may include the replacement of parts or boards with functionally equivalent reconditioned or new parts or boards. A Product that has been repaired or replaced is warranted for the balance of the original warranty period. A Product for which a replacement has been provided shall become ASE's property.

This warranty is made by ASE to the Purchaser of the Products only, and it is not assignable or transferable by the Purchaser. This is ASE's sole and complete warranty for the Products. ASE assumes no obligation or liability for additions or modifications to this warranty unless made in writing and signed by an officer of ASE. ASE does not warrant any installation, maintenance, or service of the Products not performed by ASE.

This product is covered by a U.S.A. warranty. If the Product has been sold outside of the U.S.A., ASE will honor the U.S.A. warranty terms and conditions only. Outside of the U.S.A., any different warranty terms, liabilities, and/or legal requirements of the country in which the Product is sold are specifically disclaimed by ASE.

2. Conditions Not Covered By This Warranty

a) Products that are integrated, installed, maintained, or serviced in any manner other than in accordance with the ASE user documentation furnished with or applicable to the Product.

b) Product damage caused by the use of ancillary equipment not furnished by ASE, including accessories and peripherals.

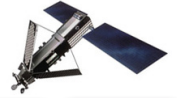
c) Problems where the Product is used in a combination with ancillary equipment not furnished by ASE and it is determined by ASE there is no fault with the Product.

d) Ancillary equipment not furnished by ASE that is attached to or used in connection with the Products is not the responsibility of ASE, and all such equipment is expressly excluded from this warranty. Furthermore, ASE does not warrant the integrated operation of the combination of the Products with any ancillary equipment not furnished by ASE.

e) Defects or damage resulting from: use of the Product in any manner not normal or customary; misuse, accident, or neglect, including but not limited to dropping the Product onto hard surfaces, immersion in or exposure to water, rain or extreme humidity, immersion in or exposure to sand, dirt, or other particulates, exposure to extreme heat, spills of food or liquid; improper testing, operation, maintenance, installation, adjustment; or any alteration or modification of any kind.

f) Batteries manufactured by ASE and sold with Products whose capacity exceeds 80% of rated capacity are not covered. Batteries whose capacity falls below 80% of rated capacity, or that develop leakage, shall be considered non-conforming. This warranty is voided for batteries if: i) such batteries are charged by other than the ASE-approved battery charger specified for charging such batteries; ii) any seals on such batteries are broken or show evidence of tampering; iii) such batteries are used in equipment other than the Product for which they are specified; or iv) such batteries are charged and stored at temperatures greater than 60 degrees Celsius.

g) Breakage or damage to antennas, or scratches or other damage to plastic surfaces or other externally exposed parts caused by Purchaser's use.



Safety

Overview

Models

Installation

Testing

Settings

Use

Special

Specs

TroubleShoot

Warranty

Appendix

ASE Limited Warranty (Continued)

- h) Products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection and testing to verify any warranty claim.
- i) Products on which serial numbers or date tags have been removed, altered, or obliterated.
- j) Coil cords that are stretched or on which the modular tab is broken; leather cases, which are covered under separate manufacturer's warranties.
- k) Products rented on a month-to-month basis.
- l) Normal wear and tear.

3. Obtaining Warranty Service

For warranty questions, repairs, or for the return of Product, please call your Service Provider or Point-of-Sale, not ASE. Equipment needing service should be returned to your Service Provider or Point-of-Sale, not ASE. SERVICE WORK PERFORMED BY SERVICE CENTERS NOT AUTHORIZED BY ASE TO PERFORM SUCH WORK WILL VOID THIS WARRANTY.

All products shipped to ASE's authorized Warranty Service Center must be shipped with freight and insurance prepaid. Purchaser must include with the Product a bill of sale, a lease, or some other comparable proof of purchase, the name and location of the installation facility, if any, and most importantly, the Purchaser's name, address, and telephone number and a written description of the problem. Product that is repaired or replaced under this warranty shall be returned to Purchaser at ASE's expense for the freight and insurance, and at Purchaser's expense for any applicable duties or other charges. If additional information is needed, please contact ASE at the address and phone number listed in Paragraph 6 below.

4. General Provisions

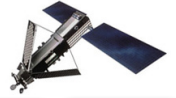
THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. FURTHER, THIS WARRANTY COVERS THE PRODUCTS ONLY, AND NO WARRANTY IS MADE AS TO COVERAGE, AVAILABILITY, OR GRADE OF SERVICE PROVIDED BY ASE SEPARATELY FOR ASE SATELLITE SERVICES. IN NO EVENT SHALL ASE BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT IN QUESTION, OR FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

5. State Law and Other Jurisdiction Rights; Software Copyrights

Some states and other jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty lasts, so the above limitations or exclusions may not apply to Purchaser.

This warranty gives Purchaser specific legal rights, and Purchaser may also have other rights that vary from jurisdiction to jurisdiction.

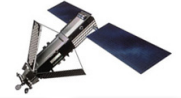
Laws in the United States and other countries preserve for ASE certain exclusive rights for copyrighted Product software such as the exclusive rights to reproduce in copies and distribute copies of such Product software. Product software may be copied into, used in, and redistributed with only the Product associated with such Product software. No other use, including without limitation disassembly, of such Product software or exercise of exclusive rights in such Product software is permitted.



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

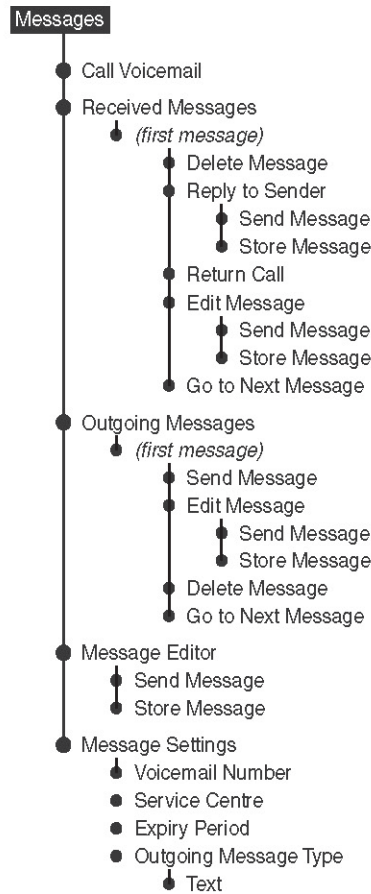
Using Message Services

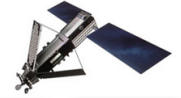
You can receive voicemail notification messages, and send and receive numeric and text messages through your Personal Mailbox service—around the world. Wherever you are, you can have instant reference to all your communication.



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')





Messages Menu





Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

Getting to Message Features...

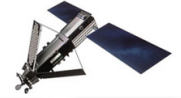
1. Press  to go directly to the Messages menu.
or
Press  until you see Messages, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, followed by Select?.

Checking Your Voicemail

This feature makes checking your voicemail simple.

1. Follow the steps in "Getting to Message Features..." to get to Call Voicemail.
2. Press  to select. You will see your voicemail number followed by Callins.

If you have not previously stored a voicemail number, then you will see No Number Available. See "Store Your Voicemail Number" on page 122 for instructions on how to enter a voicemail number.




Managing Your Received Messages

How Your Phone Notifies You of Messages

If your phone is powered on, it notifies you of received messages in the following ways:

- **An alert sounds and/or the phone vibrates**

Your phone beeps and/or vibrates three times to inform you of an incoming message. (See page 130 for instructions on how to set your phone's alert.)

- **The  (message) indicator is displayed**
- **The message is displayed immediately** and remains on the display for several seconds.

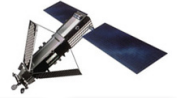
or

- **Message Read Now? is displayed** if the message is an alphanumeric text message of up to 160 characters. For more information see "Read a New Message" on page 108

How Messages Are Stored

Your phone stores all messages on your SIM card.

If the message indicator is flashing, your SIM card is full. See "Delete a Message" on page 110 to make room for the new message.



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

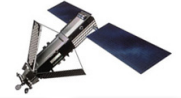
What Messages Contain

You can receive short text or numeric messages in your Personal Mailbox. Text messages may contain up to 160 characters. Numeric messages—typically phone numbers—may contain up to 20 digits.

Your personal mailbox works along with Call Forwarding. For more information see "Personal Mailbox" on page 47, and the Call Forwarding feature descriptions on pages 89-94.

Messages contain multiple screens with the following information:

- the message
- the date and time the message was sent
- the phone number (if available) from which the message was sent



Accessing Received Messages

Read a New Message

Notification Messages

An incoming voicemail notification message automatically scrolls across your screen. You can:

- Press **OK** to store it on your SIM card
- Press **C** to delete it

Text Messages

When you receive a new alphanumeric message, you will see **Message Read Now?** To read it:

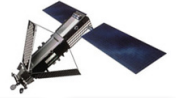
1. Press **OK** and continue with **step 2**.

or

Press **C** to read the message later. See "Read a Stored Message" on page 109.

2. Press **MENU** to move forward through a message one screen at a time.
3. Press **OK** to access menu options for the message. These options are described on pages 110-112.

Note: If the message storage space on your SIM card is full, you will not be able to store a message for later retrieval. Use the delete message feature (page 110) to make room for new messages on your SIM card.



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

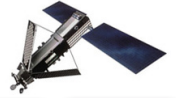
Getting to Received Messages...

1. Press to go directly to the Messages menu.
or
Press until you see Messages, and then press .
2. Press to scroll to Received Messages, and then press .
3. Press to scroll to one of the features described below.

Read a Stored Message

To read a stored message that you have received:





1. Follow the steps in "Getting to Received Messages..." to enter the message center. You will see the number of messages stored, followed by the first message. If you do not have any messages, you will see No Messages.
2. Press to scroll through the message one screen at a time.
3. Press to access menu options for the message.
or
Press and hold to exit the menu.



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')





Go to the Next Message

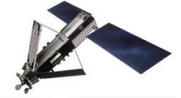
To go to the next message:

1. **Follow the steps** in "Read a Stored Message" on page 109.
2. **Press**  until you see Go To Next Message and then **press** . You will see the next message. If you are at the end of your message list you will see the first message again.
3. **Press**  to scroll through the message one screen at a time.
4. **Repeat steps 2 to 3** to read all of your messages.
5. **Press and hold**  to exit the menu.

Delete a Message

Use this feature to make room for new messages on your SIM card.




1. **Follow the steps** in "Go to the Next Message" (above) until you see the message you want to delete, and then **press** .
2. **Press**  until you see Delete Message, and then **press** . You will see Message Deleted.
3. **Press and hold**  to exit the menu.






Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

Reply to Sender

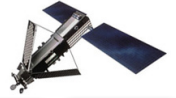
Use this feature to reply to a message.

1. **Follow the steps** in "Go to the Next Message" on page 110 until you see the message you want to reply to, and then **press**  .
2. **Press**  until you see Reply to Sender and then **press**  .
3. Compose your message. For more information, see the section titled "Managing Outgoing Messages" on page 113.

If you are replying to an email, the sender's email address will appear, and a blinking cursor indicates where you should begin composing your message. Note: Leave a space between the email address and the beginning of your message.

4. **Press**  . You will see Send Message.
5. **Press**  . You will see Enter Number. If available, the sender's phone number will automatically appear. If you are replying to an email, the standard email response number (00*2 or +*2) will appear.
6. Enter number (if none is present) and **press**  to send the message.




Using Message Services 111



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

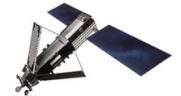
Edit a Received Message

You can edit a message that you have received, then send the modified message and/or store it in the outgoing messages list.

1. **Follow the steps** in "Go to the Next Message" on page 110 until you see the message you want to edit, and then **press** .
2. **Press**  until you see Edit Message and then **press** .

The message is copied to the message editor. You will see the final portion of the message displayed in the editing area. The cursor is placed at the end of the message.

For instructions on how to edit a stored message, see "Edit a Stored Message" on page 120.



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

Getting to Message Features...

1. Press to go directly to the Messages menu.
or
Press until you see Messages, and then press .
2. Press to scroll to one of the features described below. You will see the feature name, followed by Select?.

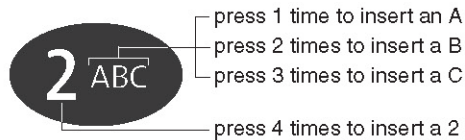
Managing Outgoing Messages

You can create a new message and send it immediately, or store it in an outgoing messages list for later use. You can also edit a message that you have received, then send and/or save the modified message. Messages are created and edited in the message editor.

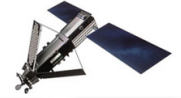
Message Editor

The message editor lets you create a new message or modify a stored message.

You use the keypad to create or edit a message. You can produce any letter in the alphabet by pressing the appropriate key. For example, press to enter the letters A, B, or C, as shown:




For a complete list of the characters you can enter from the keypad, see page 66.





Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

Create a New Message

To create a new message in the message editor:


1. **Follow the steps in "Getting to Message Features..."** on page 113 to get to Message Editor, and then **press**  to select.

The message editor displays the contents of the last message entered. If there are no previous messages, the cursor is placed in the upper left corner of the editing area.

2. **Press and hold**  to clear the entire message editor contents, if necessary.
3. Begin composing your message. **Enter a letter** by pressing a key as many times as necessary.
4. **Press**  to advance the cursor.
5. **Repeat steps 3 and 4** as many times as necessary to complete your message.

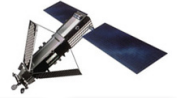
Lines of text are automatically formatted in the display. When you reach the bottom of the editing area, the top lines of text scroll up and off the display in order to keep the cursor and the last few lines of text in view.

When you have finished composing your message:

6. **Press**  to access options for that entry.

Message editor menu options let you send the message immediately or store it for later use. These options are described on pages 116-117.

Tip: Press and hold any numeric key to toggle between uppercase and lowercase characters.




Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

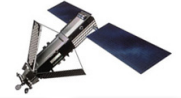
Create a New Email Message

Note: You must subscribe to this network feature through your service provider. Contact your service provider for additional information.

1. **Follow the steps** in "Create a New Message" on page 114 until you get to step 3.
2. Compose your message, starting with the destination email address, followed by a space, and then your message.
For example:
 johndoe@domain.com This is a sample message.

Note: The maximum length of the entire message (including the destination email address) is 160 characters. The editor will stop after the 160th character has been entered

3. Press  to access options for that entry.






Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

Edit a Message


You can edit a new message at any time while you are creating it.

You can also edit received messages or messages stored in the outgoing messages list. See "Edit a Received Message" on page 112 for instructions on how to copy a received message into the message editor. See "Edit a Stored Message" on page 120 for instructions on how to copy an outgoing message into the message editor.

To **delete** text in a message:





1. **Press**  to scroll the cursor to the right of the text you want to delete.
 2. **Press**  to delete one character at a time.
- or
- Press and hold**  to clear the display.

To **add** text to a message:

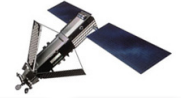
1. **Press**  to scroll the cursor to the location where you want to add new text.
2. **Enter a letter** by pressing a key as many times as necessary.

Send a Message

To send a message from the message editor:

1. **Press**  to access message editor menu options.
2. **Press**  until you see **Send Message** and then **press** . You will be prompted to enter the destination address or phone number for the message.
3. **Enter the destination address** and then **press**  to send the message.

If the destination is a phone number, enter it beginning with "00" or "+". If the destination is an email address, enter "00*2" or "+*2".




Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

The message is sent to your message service centre, which forwards the message to its final destination. You will see **Message Sent** when the message arrives at the service centre.

If the message cannot be delivered to the service centre, you will see **Message Failed**, followed by **Resend?** on the next line. You can:

Press  to resend the message.




or

Press  to abandon the attempt to send the message at this time. See "Store a Message" on page 117 for instructions on how to store the message for later mailing.

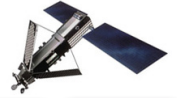
If you have not previously stored a service centre number, then you will see **No Service Centre**. See "Enter Service Centre Number" on page 123 for instructions on how to enter a service centre number.

Store a Message

To store the contents of the message editor to the outgoing messages list:

1. **Press**  to access message editor menu options.
2. **Press**  until you see **Store Message** and then **press** . You will see **Stored to Outgoing**.

Outgoing messages are stored on your SIM card. When the SIM card is full (indicated by a flashing message indicator), you will not be able to store a message for later retrieval. Use the delete message feature (page 121) to make room for new messages on your SIM card.



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

Getting to Outgoing Messages...

1. Press to go directly to the Messages menu.
or
Press until you see Messages, and then press .
2. Press to scroll to Outgoing Messages, and then press .
3. Press to scroll to one of the features described below.

Read a Stored Message

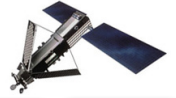
This feature displays the first message stored in the outgoing messages list.

To read a stored message:

1. **Follow the steps in** "Getting to Outgoing Messages..." **to enter the message center.** You will see the number of messages stored, followed by the first message. If you do not have any messages, you will see **No Messages**.
2. Press to scroll through the message one screen at a time.
3. Press to access menu options for the message.

or

Press and hold to exit the menu.







Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

Go to the Next Message

This feature takes you to the next message in the outgoing messages list.


To go to the next message:

1. **Follow the steps** in "Read a Stored Message" on page 118.
2. **Press**  until you see **Go To Next Message** and then **press** . You will see the next message.
3. **Press**  to scroll through the message one screen at a time.
4. **Repeat steps 2 to 3** to read all of your messages.
5. **Press and hold**  to exit the menu.

Send a Stored Message

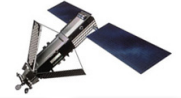
This feature sends a message stored in the outgoing messages list.

To send a stored message:

1. **Follow the steps in** "Read a Stored Message" on page 118.
2. **Press**  until you see **Send Message** and then **press** . You will be prompted to enter the destination address (phone number) for the message.
3. **Enter the destination address** and then **press**  to send the message.

If the destination is a phone number, enter it beginning with "00" or "+". If the destination is an email address, enter "00*2" or "+*2".

The message is sent to your message service center, which forwards the message to its final destination. You will see **Message Sent** when the message arrives at the service center.



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

If the message cannot be delivered to the service centre, you will see **Message Failed**, followed by **Resend?** on the next line. You can:

Press **OK** to resend the message.

or

Press **C** to abandon the attempt to send the message at this time.

If you have not previously stored a service center number, then you will see **No Service Centre**. See "Enter Service Centre Number" on page 123 for instructions on how to enter a service center number.

Edit a Stored Message

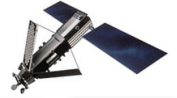
You can edit a message that you have stored in the outgoing messages list.

To edit a stored message:

1. **Follow the steps** in "Go to the Next Message" on page 119 until you see the message you want to edit, and then **press OK**.
2. **Press MENU** until you see **Edit Message** and then **press OK**.

The message is copied to the message editor. You will see the final portion of the message displayed in the editing area. The cursor is placed at the end of the message.

For instructions on how to edit a received message, see "Edit a Received Message" on page 112.







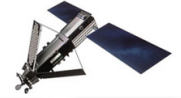
Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

Delete a Stored Message

Use this feature to make room for new messages on your SIM card.

To delete a stored message:

1. **Follow the steps** in "Go to the Next Message" on page 119 until you see the message you want to delete, and then **press**  .
2. **Press**  until you see Delete Message, and then **press**  . You will see Message Deleted.
3. **Press and hold**  to exit the menu.



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

Getting to Message Settings...

1. Press to go directly to the Messages menu.
or
Press until you see Messages, and then press .
2. Press to scroll to Message Settings, and then press .
3. Press to scroll to one of the features described below.

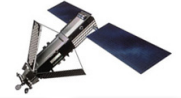
Managing Other Message Settings

Store Your Voicemail Number

To store a voicemail number:

1. Follow the steps in "Getting to Message Settings..." to get to Voicemail Number, and then press to select. You will see Enter Voicemail Number followed by your current voicemail number. If this is the first time you have stored a number, continue with step 3.
2. Press to select Voicemail Number. Press to clear one digit at a time, or press and hold to erase the entire number.
3. Enter the new number, and then press . You will see Completed.
4. Press and hold to exit the menu.

Tip: Use pause dialing to store your voicemail access and PIN numbers together. See "Using Pauses in Numbers" on page 67.








Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

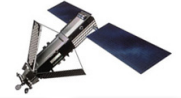
Enter Service Centre Number

Use this feature to enter the number for the service center that forwards your outgoing messages. You must specify a service number before you can send any messages.

To enter the service center number:

1. **Follow the steps in "Getting to Message Settings..."** on page 122 to get to Service Centre, and then **press**  to select. You will see Enter Service Number followed by your current service center number. If this is the first time you have stored a number, continue with **step 3**.
2. **Press**  to clear one digit at a time, **or press and hold**  to erase the entire number.
3. **Enter the new number**, and then **press** . You will see Completed.
4. **Press and hold**  to exit the menu.

Tip: *The service center number is provided by your service provider.*



Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

Getting to Message Settings...

1. Press to go directly to the Messages menu.
or
Press until you see Messages, and then press .
2. Press to scroll to Message Settings, and then press .
3. Press to scroll to one of the features described below.

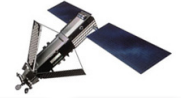
Set Expiry period

This feature specifies the maximum amount of time, in hours, that an unforwarded outgoing message will remain at the service center before it is deleted.

To set the message expiration period:

1. Follow the steps in "Getting to Message Settings..." to get to Expiry Period, and then press to select. You will see Enter Hours followed by the current setting.
2. Press to clear one digit at a time, or press and hold to erase the entire number.
3. Enter the new number, and then press . You will see Hours followed by the number you entered.
4. Press and hold to exit the menu.

Tip: The default expiration period setting is 7 days (168 hours).







Using Iridium's Messaging Features From the Privacy Intelligent Handset (Courtesy of 'Iridium's 9505A User's Guide')

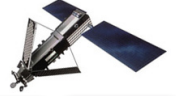
Specify Outgoing Message Type

You can send messages to a device which interprets them in a format other than text. Your service center converts the messages before forwarding them to the destination address.

Note: Currently, the only supported message type is "TEXT".

To specify the outgoing message type:

1. **Follow the steps in "Getting to Message Settings..."** on page 124 to get to **Outgoing Message Type**, and then **press**  to select.
2. **Press**  to scroll to the desired type, and then **press**  to select it.
3. **Press and hold**  to exit the menu.



Declaration Of Conformity

Declaration of Conformity

Application of Council Directive: 2004/108/EC

**Standards To Which
Conformity Is Declared:**

IEC60945:2002	
Conducted Emissions	Clause 9.2
Radiated Emissions	Clause 9.3
Conducted RF Disturbance	Clause 10.3
Radiated RF Immunity	Clause 10.4
Electrical Fast Transients	Clause 10.5
Electrostatic Discharge	Clause 10.9
Compass Safe Distance	Clause 11.2

Manufacturer's Name: Applied Satellite Engineering Inc.

Manufacturer's Address: 16559 N. 92nd Street, #101
Scottsdale, AZ 85260
(480) 443-1424

Equipment Description: ComCenter II

Equipment Class: Maritime Navigation and Radio
Communication Equipment and
Systems

Model Numbers: MC01,MC04,MC05,MC06 (Incl of
MC07,MC08)

*I the undersigned, hereby declare that the equipment specified above,
conforms to the above Directive(s) and Standard(s).*

Place: Scottsdale, AZ, U.S.A.
Signature: Bill Reddy
Full Name: Bill Reddy
Position: Dir. Engineering