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Contacts

For additional information about this Product warranty, repair service, or airtime services, please contact your Service Provider or Point-of-Sale. For additional information about ASE products and services, please contact ASE as follows:

Telephone: 480.443.1424

Facsimile: 480.452.0971

Website: www.ase-corp.com

Mail: Applied Satellite Engineering, Inc.
16559 North 92nd Street, Suite 101
Scottsdale, Arizona 85260 USA

E-mail: info@ase-corp.com

Preface

ASE's ComCenter-II 'Outdoor' provides an interface between the Iridium satellite network and standard POTS/ RJ-11 telephone handsets and PABX equipment for voice, and IP (Internet Protocol) for data.

QUESTIONS

If at any time, you have questions or concerns about either the installation or operation of your ComCenter, please visit www.ase-corp.com or contact us using the information located on the cover of this manual.

Product Features

In addition to providing an uplink to the Iridium Satellite network for both Voice and Data, The ASE ComCenter 'Outdoor' also provides satellite communication users with:

Voice Features

- Indoor Satellite Phone Usage
- SmartDial Dialing Sequence

Data Features

- Data Connectivity using Ethernet Infrastructure

Administrative Features

- A PC-Based user console for system setup and status
- Captain/Crew PIN Codes assignments for multi-user authorization
- Scratch card support

Physical Features

- Small and compact size with built-in antenna simplifies installation
- Pole or surface mount
- Rated for outdoor exposure





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PRECAUTIONS:

Please read and understand this User's Manual before installing your ComCenter. 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. 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.

4. 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.

5. 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.



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Safety Information (Continued)

6. 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.

7. 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.

8. 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.

9. Posted Facilities

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

10. 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.

11. 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.

12. 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.



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Safety Information (Continued)

13. Important Notes for PABX System Users

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

The ComCenter 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 to a PABX as an extension or damage to the PABX or ComCenter may result.



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In Case of Damages or Missing Parts

Your ComCenter carton should contain everything needed to install the system. If you find that any component (listed below) is missing or damaged, please contact ASE immediately.

IMPORTANT:

The ASE ComCenter 'Outdoor' does NOT include the mounting pole, as the length of this component will vary widely.

What's Inside the Box

- A ComCenter IIG / Outdoor Unit
- B Communications Cable
- C Universal Wallplate
- D AC/DC Power Transformer (Country Specific)
- E Pole Mount Adapter & Hardware
- F Installation CD
- G Product Manual
- * 20 Foot Interface Cable with cable to connector breakout (RJ-11, RJ-45, Power)

* Item not shown in Illustration

Optional 50 to 100 foot extensions allow up to 400 foot lengths



Tools Required for Installation

For this installation you will need a safe work area that is outdoors with a 360 degree view of the sky (for device testing along with a few tools including a #2 Phillips screwdriver, a 2mm Allen Wrench, and possibly a stable Ladder.



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Pre-Use Testing of Components and Connectivity

Before spending the time to fully install the Comcenter in its new home, its best to test the components and connectivity while all of the parts are still easily accessible.

IMPORTANT:

THE FOLLOWING STEPS ARE NOT TYPICALLY AN END USER REQUIREMENT, THE SIM CARD SHOULD BE PRE-CONFIGURED (UNLOCKED) AND INSTALLED BY YOUR SERVICE PROVIDER.

Accessing Internal SIM Slot

Open the Top cover from the ComCenter by removing the screws in the body as shown. Lightly squeezing the top shell will break the seal with the waterproof gasket and allow access to the interior.

NOTE:

This device will be shipped to the distributor WITHOUT the screws installed. The screws can be found inside a plastic bag. After installing the SIM card, it is very important that the screws are located and installed.



Installing SIM Card

Remove the SIM door using a screwdriver; and then place the unlocked SIM card into the slot as shown.

IMPORTANT:

Make sure to "lock" the SIM holder by gently pushing it in the direction indicated by the arrow.

IMPORTANT:

The modem in your ComCenter may not be identical to that pictured here



Re-Assembling ComCenter Casing

Once the SIM card has been installed, close the SIM door and lock it with the provided screws. Next re-attach the top shell taking care that the waterproof gasket seals properly as shown. Screw down the casing fasteners only once the gasket is properly seated.

IMPORTANT:

Be sure that the rubber seal is properly seated before re-tightening the Casing Screws.





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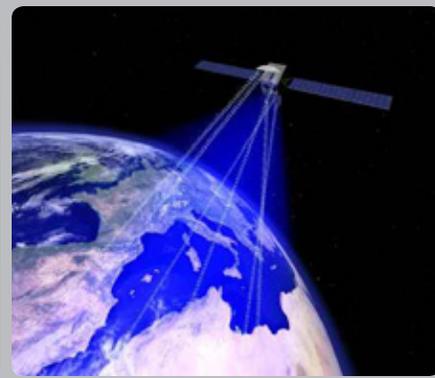
Pre-Use Testing of Components and Connectivity (Continued)

The next step in the Pre-Use Test Process will be to connect the power and at least one telephone handset. This will allow you to double check that the unit, and your cables, will perform properly once fully installed.

Locating Satellite-Viewable Work Area

To properly test the system, you'll need to place the antenna unit in a position with a 360 degree view of the sky. Any obstructions will cause a lapse in connectivity between the ComCenter and the orbiting satellites.

Run the cable to the supplied adapter (see below)

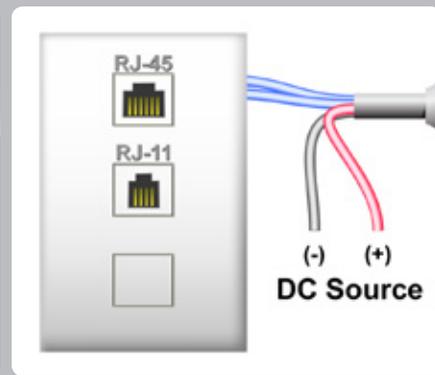
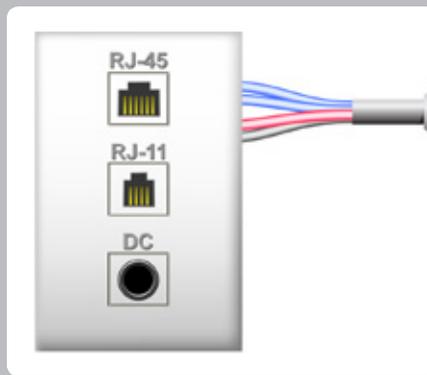


Attaching Phone and Power

If you intend to use the supplied power transformer, then connect the power jack the wall plate as shown in the top illustration. If you prefer to connect the system to another DC power source*, then simply separate the wires as shown in the bottom illustration and connect those to the alternate source.

Next connect a standard analog/POTS telephone into the RJ11 jack.

*24 - 36VDC, 15 Watts



Activating and Testing the System

Once the initialization has completed (about 30 seconds), you should hear one of the following tone patterns (depending on your system settings).

[Long] (Constant Dialtone)
or

[Found Home Network]

[Pause]-[Short]-[Pause].....

[Waiting for PIN code]

This indicates that all elements of the system are operating properly. If any element of the system is not operating correctly, the earpiece will emit a 'fault code'. Refer to Appendix A for code definitions and the troubleshooting steps to resolve them.



NOTE:

At this point, you should be able to pick up the Handset and hear a tone pattern. If not, you should check all your connections and try again.

IMPORTANT:

For a complete listing of the meaning behind system tone messages, see Appendix A.



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Installation

Once you have successfully "Pre-Use" tested the ComCenter device, you will be ready to proceed with system installation. Step-by-Step illustrations for this process are provided below.

Attaching Bracket to Pole

Attach the ComCenter mounting bracket to the top of a Threaded 1" diameter pipe by spinning the bracket clockwise. Once the bracket no longer turns freely, lock it in place using the set-screw as shown.

NOTE:

Usable Mounting Poles measure 1" in Diameter and are end-threaded with a 14 thread-per-inch thread.



Routing Cables

Feed the Communications cable down the bracket (and pipe) toward your designated communications area. It is important to leave yourself 6-8" of extra cable that will serve as a service loop while attaching the ComCenter Outdoor Unit.

IMPORTANT:

Be sure the exposed cable contains the "Female" connector, and not the "Male".



Connecting the ComCenter

Pull the opposite end of the communications cable through the wall and attach it to the supplied wall-plate adapter. Next attach the wall-plate to the wall as shown.

IMPORTANT:

Be sure the exposed cable contains the "Male" connector, and not the "Female".





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Installation (continued)

The next steps in the installation process involve making all of the final cable connections and mounting the ComCenter Outdoor Device to the newly assembled mounting bracket.

Attaching Cable to ComCenter

Plug the Female end of the communications cable to the underside of the ComCenter Outdoor unit. The cable is "keyed" to allow proper pin alignment, gently rotate the plug until it slides into place with a tactile "click".



Attaching ComCenter to Bracket

Once aligned, tighten the mounting screws in the bracket to the underside of the ComCenter Outdoor Unit.



Attaching Power and Phones to Wall Plate

Now that the device is fully installed, plug in the standard telephone handset, the CAT-5 Communications Cable, and finally the power Supply Cable as shown. Confirm (again) proper connectivity by listening for the tone patterns in the handset.

If you do NOT have a steady dial tone, you should first check all of your connections and try again.



NOTE:

At this point, you should be able to pick up the Handset and hear a steady Dial Tone. If not, see troubleshooting in Appendix A



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Typical Start-Up Sequence

The following guide describes the basic functions of the Applied Satellite Engineering ComCenter.

IMPORTANT:

Visit www.ase-corp.com for the latest updates. For further information or clarification, Please contact your service provider. Your service Provider's tech support number should be included with the shipment.

Power-On Confirmation

Searching for Network (*Standard Telephone Handset*)

Within 10 seconds after power-up, you should hear a tone pattern through the standard telephone handset; this indicates that the system is searching for the Iridium network.

[Long]-[Short]..... [Searching for Network]

Registered with Network (*Standard Telephone Handset*)

Once the ComCenter has established a network connection to the Iridium Satellite Network, you will then hear the following:

[Short]-[Short]-[Short]-[Short]-[Short] [Found Home Network]



Ready-For-Use Confirmation

System Ready (*Standard Telephone Handset*)

Once system is ready to accept a dial request, you will hear dial tone or a pin code tone.

[Long] (Constant) [Found Home Network]

[Pause]-[Short]-[Pause]..... [Waiting for PIN code]

IMPORTANT:

For a complete listing of the meaning behind system tone messages, see Appendix A.



ComCenter II Network Installation

This section gives step-by-step instructions on how to connect the ComCenter II Outdoor on your network or single PC. Once installed, the ComCenter's Device webpage gives you powerful data and text messaging capabilities.

From the ComCenter II Outdoor Device webpage you can:

- 1) Send and Receive Text Messages using the built-in ASE SatChat
- 2) Establish an Internet connection through the Iridium ISP
- 3) Monitor the Iridium Network Performance
- 4) Review the ComCenter II Outdoor Usage History Log



STEP 1: How will your ComCenter II be accessed?

Before physically installing the ComCenter II on a mast, pole, or other inaccessible location, you will need to decide how you want to access the ComCenter II data features and set it up accordingly.

LAN If your ComCenter-II will be accessed from an ethernet connection from a Local Area Network [LAN], then follow the instructions headed by this LAN symbol.

DIRECT If your ComCenter-II will be accessed from an ethernet connection from a single PC or laptop [DIRECT], then follow the instructions headed by this DIRECT symbol.

STEP 2: Selecting Network Mode

With the top half of the ComCenter II shell removed, connect your Ethernet cable and apply power to the device. Locate the IP MODE selection button and associated IP MODE LEDs.



The IP MODE selection button selects between the two network types. The LED indicators provide visual indication of the current mode. Press the button to alternate between the two modes and select your desired installation type.

DIRECT		LAN	
Single LED will be lit for Single Node Fixed Address (PC or Laptop)		Dual LEDs will be lit for Multi Node, DHCP Assigned Address (LAN)	



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DIRECT

Single-node Network (PC, laptop or Point-to-Point)

A Point-to-Point Network is a network connected directly between two Ethernet appliances – in our case - the ComCenter II Outdoor and your PC. In this configuration, the ComCenter II Outdoor is located at a fixed IP address and the PC's IP configuration is modified to support this address.

LAN

Multi-node Network (default setting)

A Multi-node Network is a network with multiple Ethernet devices – multiple computers, printers, the ComCenter II Outdoor, etc – connected and communicating through an Ethernet router. A DHCP server on the network (often a feature of the router) will assign IP addresses to devices as they enter the network.

1. The ComCenter II Outdoor requests the DHCP Address when first installed or when the IP MODE button is toggled to the DIRECT setting and back to LAN setting.
2. Once an IP ADDRESS has been assigned, the ComCenter II Outdoor converts this to a FIXED ADDRESS and will NOT request a new address again upon power up or Ethernet connect.

To request an IP Address from the DHCP server again, the IP MODE button must be toggled to the DIRECT setting and back to LAN setting.

STEP 3: Install ASE Device Manager Software (see Appendix C for install details)

The ASE Device Manager Utility included on the CD-ROM provides the single-click ability to scan your network and find ASE Devices on your network. Once your ASE Device is found, the Device Manager provides additional features including one-click access to your new device's webpage, or connecting directly to the Internet through your new device.





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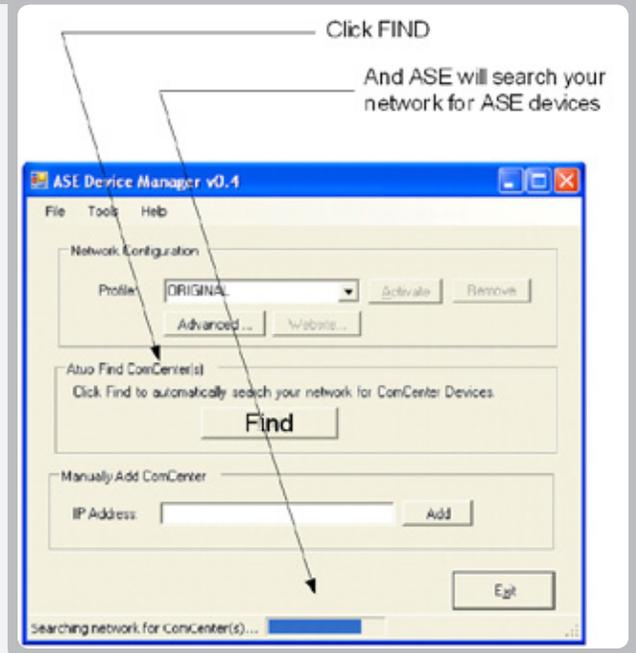
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STEP 4: Using ASE Device Manager

Now that you've successfully installed the required applications, run the ASE Device Manager application to FIND and start using your new device.

FINDING your ASE Device

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.



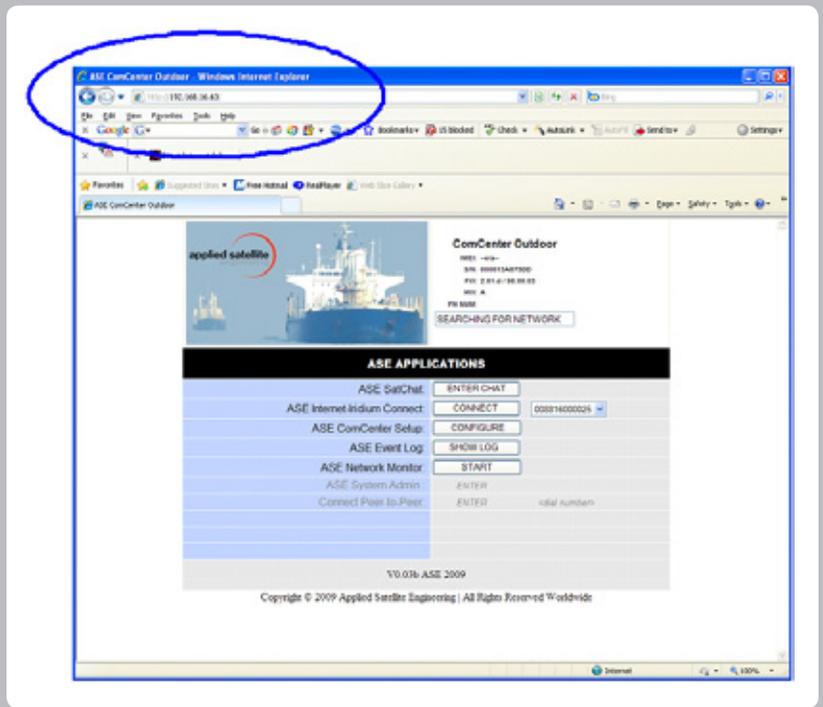
Accessing Data Features on the Device Webpage

You can access your ComCenter II Outdoor data features using a web browser on your PC or mobile device.

Therefore, you will need to know the IP Address (also called URL) of the device. (Sounds complicated – but, don't worry – ASE has it simplified!). And the advanced data features are well worth it!

Using the ASE Device Manager Utility, you can find your device address on your network, select the device and one click to the ComCenter II Device webpage.

Or – now that you know the IP address of your ComCenter II, you could simply open a web browser and type this number in the browser address bar. We recommend you Bookmark the device webpage for future use.





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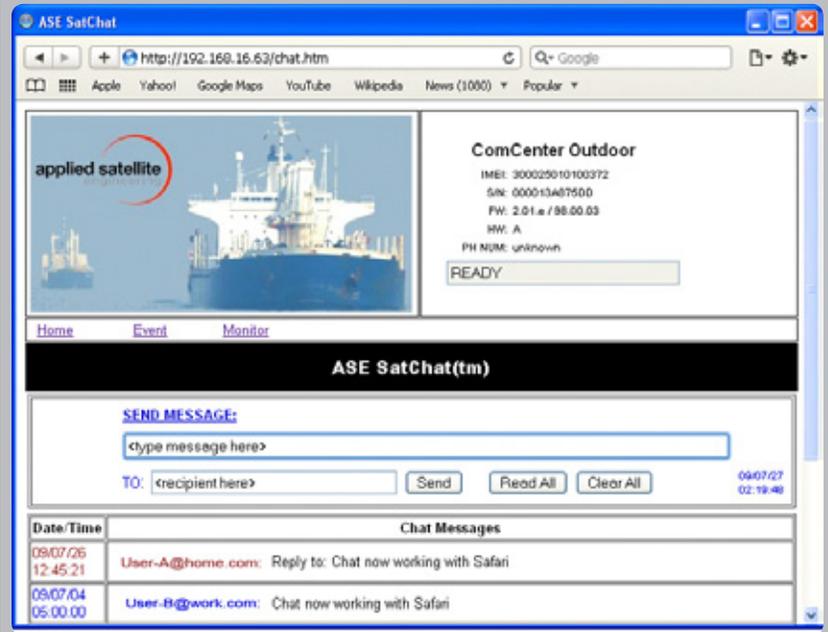
Using ASE SatChat Text Messaging

ASE's SatChat feature gives you a simple, familiar, and powerful texting platform – all from the convenience of your PC. Simply enter a message up to 160 characters in the SEND MESSAGE: box, enter the destination in the TO: box and click SEND.

The outgoing message can be sent to either an email address or an Iridium 8816 subscriber number.

Messages are logged in the Chat Messages window with a time stamp and are color-coded to easily identify whether they are incoming or outgoing messages.

You can also click the READ ALL button to retrieve previous chat sessions or click the CLEAR ALL button if you want to delete them all.

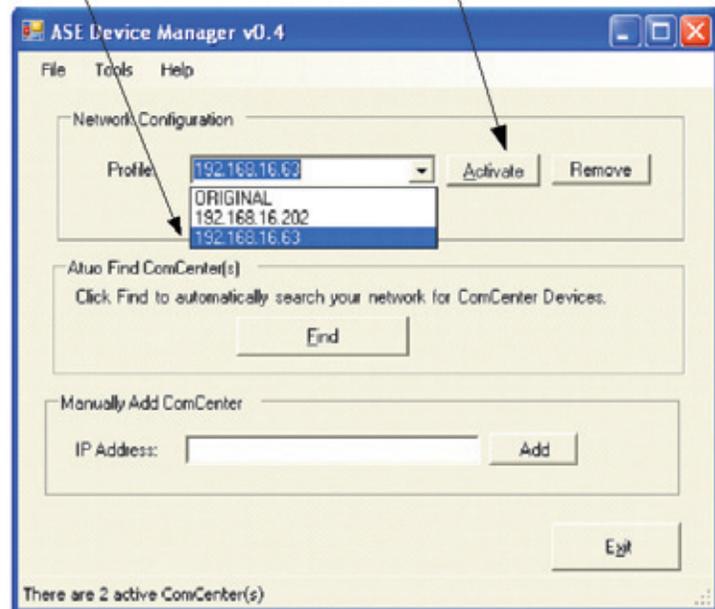


Using the ComCenter II to connect your computer to the Internet

With ASE's Device Manager, it's very simple!

1. Configure your PC to use the ComCenter II Outdoor and Iridium ISP for your internet connection. Direct connection to the internet can be invoked from either the ASE Device Manager or the 'home page' of the device's webpage.

Select the ASE Device
(Note: ORIGINAL is your original
computer settings. All other listings are
ASE devices) and Activate



continued next page



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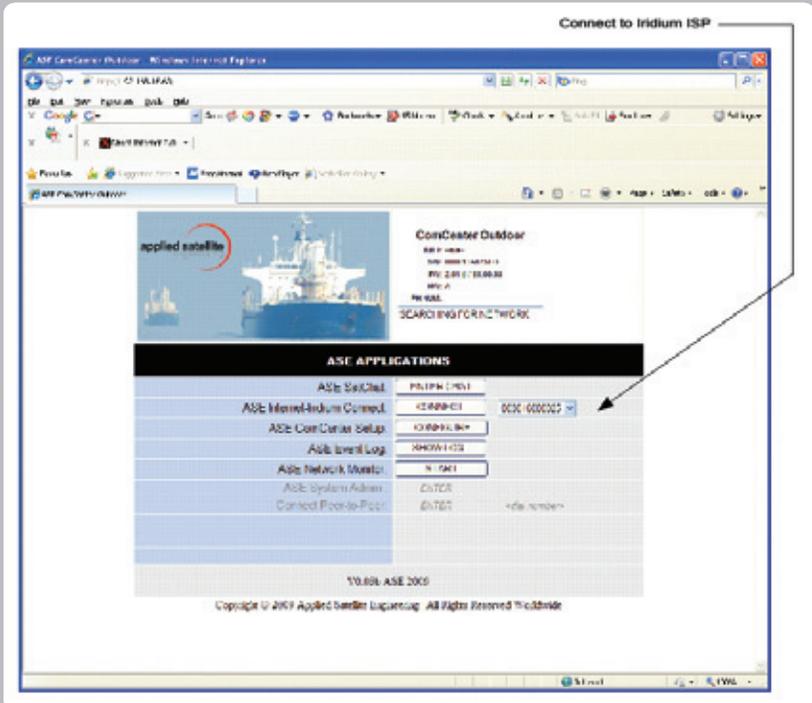
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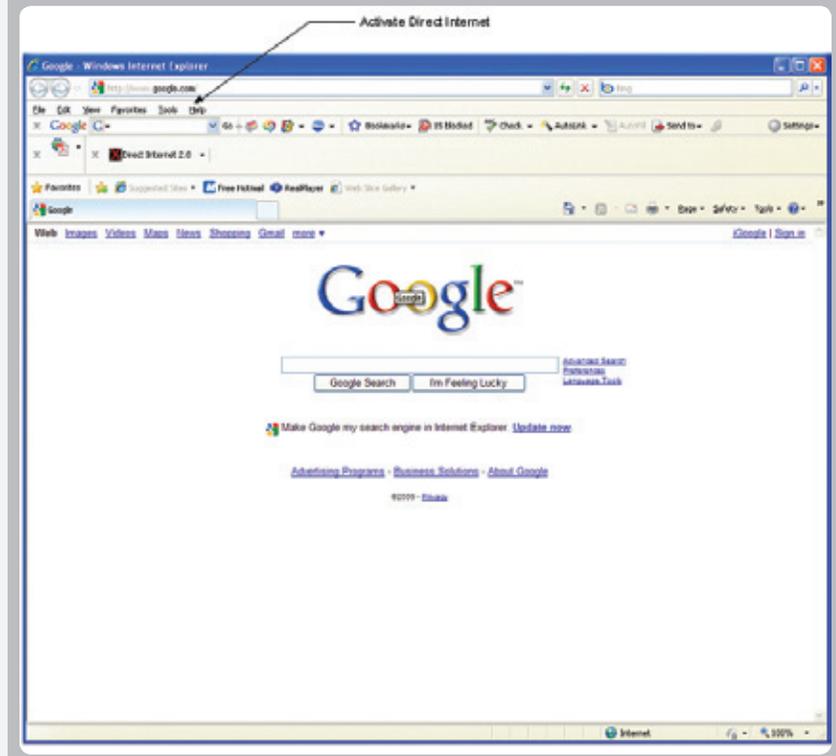
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Using the ComCenter II to connect your computer to the Internet (continued)

- Instruct the ComCenter II Outdoor to establish the Iridium Internet Session.



- Once connected, simply open a new Internet browser window.





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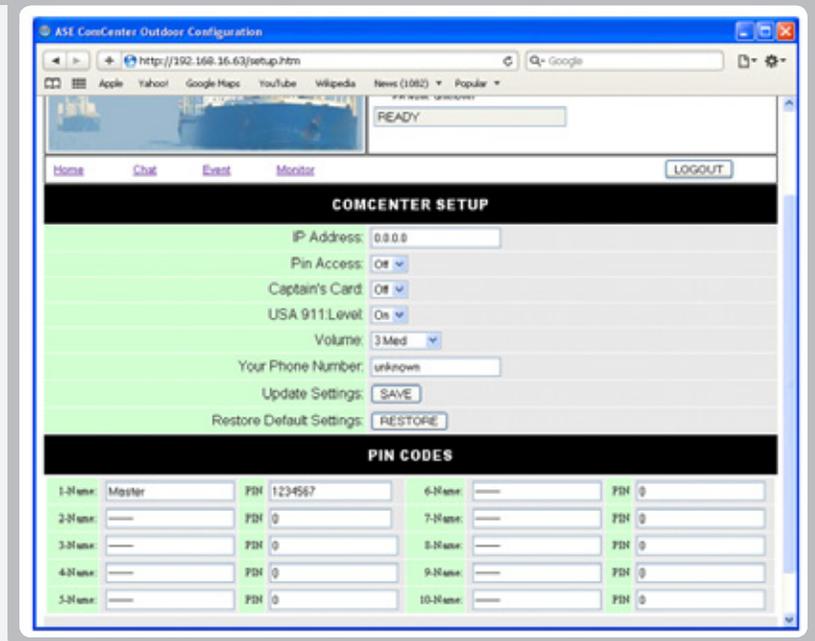
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System Configuration Webpage

The configuration page lets you setup the ComCenter II Outdoor just the way you like it. Enter your Iridium 8816 phone number for quick reference and select other settings such as voice call volume, captain's card support, as well as how emergency 911 calls are handled.

ComCenter PIN Access

The ComCenter II supports standard or captain's post-paid SIM cards as well as pre-paid scratch cards. PIN access gives you control over who can access your post-paid minutes by assigning up to 10 unique PIN codes.

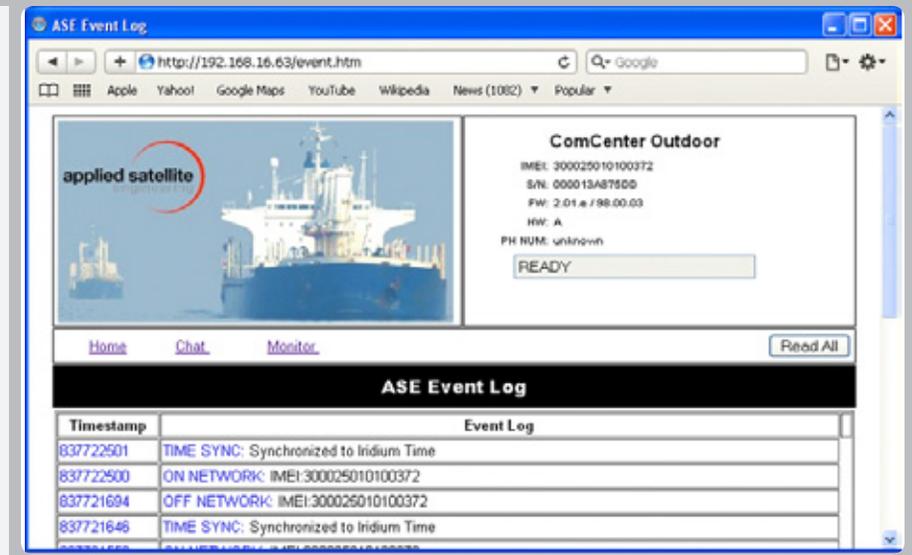


Accessing System Diagnostics

The ComCenter's Device webpage links to two powerful diagnostics pages. The Event webpage provides historical system events whereas the Monitor webpage provides real-time system status.

Event Log Webpage

Historical system events are time-stamped and stored in a log file that can be retrieved on this page





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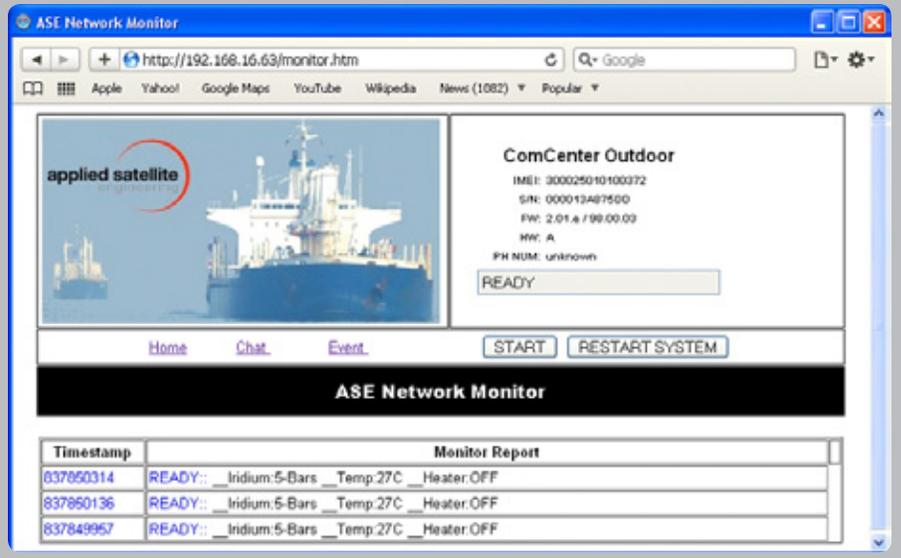
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Network Monitor Webpage

This page logs system events every 15 seconds to give real-time status of current system and network conditions. This data is not stored and begins logging when the page is opened.



The screenshot shows a web browser window titled "ASE Network Monitor" with the URL "http://192.168.16.63/monitor.htm". The page content includes the Applied Satellite Engineering logo, a photograph of a satellite ship, and system information for "ComCenter Outdoor".

ComCenter Outdoor
 IMEI: 300025010100372
 SIM: 000013A87500
 PIN: 2 014 198 00 03
 MW: A
 PH NUM: unknown
 READY

Buttons: [Home](#) [Chat](#) [Event](#)

ASE Network Monitor

Timestamp	Monitor Report
837850314	READY:: Iridium:5-Bars Temp:27C Heater:OFF
837850136	READY:: Iridium:5-Bars Temp:27C Heater:OFF
837849957	READY:: Iridium:5-Bars Temp:27C Heater:OFF



Making Voice & Data Calls

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.

Making a Voice Call using a Pre-Assigned PIN number (standard telephone or PBX Handset)

STEP	SEQUENCE	DESCRIPTION
Initialize System	Pick up Handset	Listen for tone sequence: [Pause]-[Short]-Pause]
Enter PIN	# # # # #	Once approved, you will hear a dial tone
Dial Number	Country Code + Phone Number	Once accepted, called party's phone will ring
	Converse	Usage charges will be applied to the account
Terminate Call	Hang up Handset	This will Terminate the Call

Making a Voice Call using a Pre-Purchased Scratch Card (standard telephone or PBX Handset)

STEP	SEQUENCE	DESCRIPTION
Initialize System	Pick up Handset	Listen for tone sequence: [Pause]-[Short]-Pause]
Call Scratch Services	2 8 8 8	This will initialize Scratch Card services
Dial Number	Country Code + Phone Number	Wait for the Voice Prompt before Proceeding
Enter Scratch Card	# # # # # # # #	Once accepted, called party's phone will ring
	Converse	Usage charges will be applied to the Scratch Card
Terminate Call	Hang up Handset	This will Terminate the Call

Making a Voice Call with PIN-lock Access = OFF (standard telephone or PBX handset)

STEP	SEQUENCE	DESCRIPTION
Initialize System	Pick up Handset	Listen for tone sequence: [Long] (Constant)
	Converse	Usage charges will be applied to the account
Terminate Call	Hang up Handset	This will Terminate the Call



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Extended Options & Features

In operation or extended use, Users can perform a number of other tasks including those listed below.

Making a Voice Call, with PIN-lock Access = OFF, using QuickDial (standard telephone handsets only)

STEP	SEQUENCE	DESCRIPTION
Initialize System	Pick up Handset	Listen for dial tone [Long] steady
Enter Code	* 7 # # #	Where [###] is your Three-digit QuickDial Number
	Converse	Usage charges will be applied to the Scratch Card
Terminate Call	Hang up Handset	This will Terminate the Call

Configure the Device Using DTMF Signals (standard telephone handsets only)

STEP	SEQUENCE	DESCRIPTION
Initialize System	Pick up Handset	Listen for dial tone [Long] steady
Enter Code	* # # #	Where [###] is your 3-digit Setup Command
Terminate Session	Hang up Handset	This will Terminate the Call

Configure the Device or View Status from a Computer (PC)

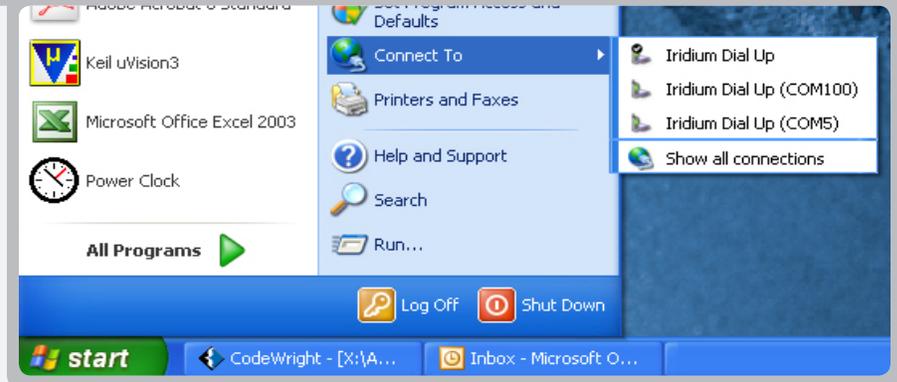
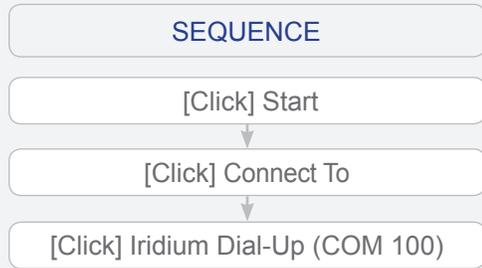
STEP	SEQUENCE	DESCRIPTION
Install Application	Insert the supplied ASE Installation Utility	This will Install the ASE ComCenter Manager software to your PC
Run Application	Click: Start > Programs > Applied Satellite Engineering > ComCenter Manager	This connects your PC to the ComCenter Data Port
View Status	Setup (Tab)	This page will display system status and reception
Configure Device	Phone Settings or PIN-Codes	Allows administrators to configure device setting or modify PIN code assignment and passwords.

IMPORTANT:

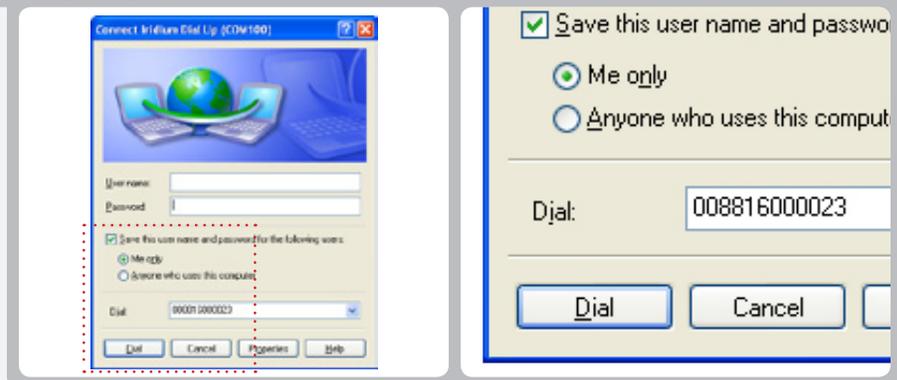
For a complete listing of the meaning behind system tone messages heard through the standard telephone handset, see Appendix A on page 18



Making a Data Connection (using Windows XP)



Select 'DIAL' (no user name or password required)



In Process Dialogs (no user name or password required)

The following dialog is displayed for about 30 seconds while the dial-up connection is completed to the Iridium Network.



Once a connection is established, Iridium establishes the ISP link. This also takes about 15 seconds. First, a user name and password verification dialog is displayed.

Next, a network registration dialog is displayed.

UPON COMPLETION:
You are now connected to the Internet (usage charges will be applied to the account)



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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.



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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.



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Appendix A: ComCenter TONE Codes (standard telephone handsets only)

This Content is not yet available, please contact an ASE representative for the very latest information and an updated Users Guide.



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Appendix B: Installation Procedure for Windows XP

Place the Installation CD in to your CD-ROM drive and (if 'Auto-Run' is enabled) follow the on-screen instructions. If 'Auto-Run' is NOT enabled, simply navigate to your CD-ROM drive and double-click the 'setup.exe' icon.

Click Install to begin.

NOTE: some of the applications listed may be skipped if they are already installed on your computer.

Follow the screen prompts until all applications are installed.

