



SurfBeam[®] 2

Residential

Satellite Modem

RM4000 Series

Models:

RM4100 1-IFL, Ka & RM4200 2-IFL, Ka

User's Guide

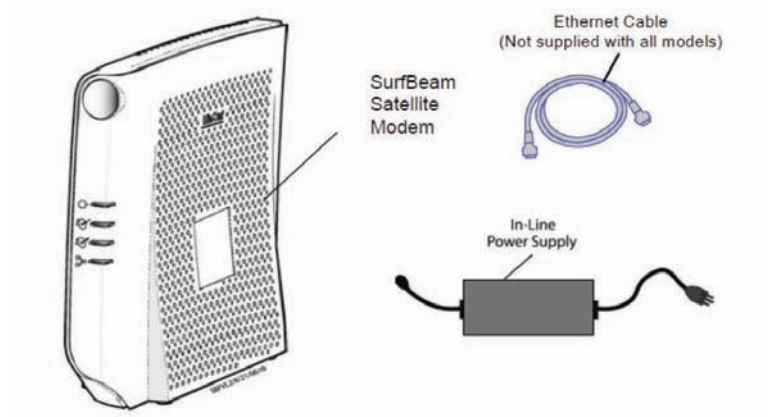
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STEP 1

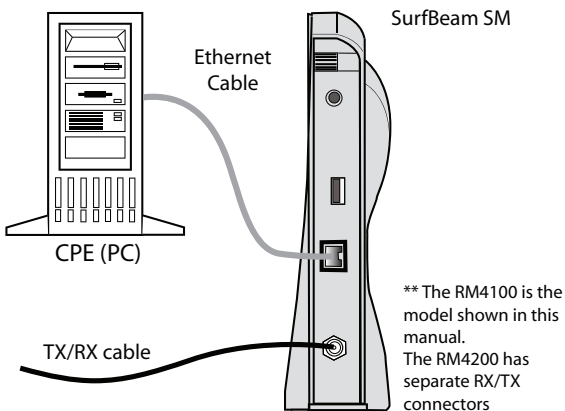
The SurfBeam® 2 Satellite Modem (SM) includes everything shown here.

1. Place the Satellite Modem (SM) near your computer.
2. Keep it away from heat, liquid, and magnetic interference.



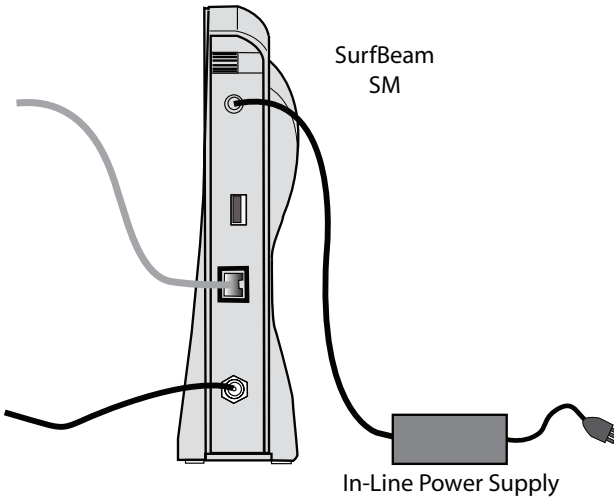
STEP 2

1. Connect one end of the Ethernet cable to the SurfBeam 2 SM and the other to the Network Interface Card in your computer.
2. Connect and hand-tighten the TX and RX cables from the outdoor unit (ODU) to the SurfBeam 2 SM.



STEP 3

1. Plug the in-line power supply into the SurfBeam 2 SM, and then into the AC power source.
2. AC requirements are: 115 or 220 VAC, 50-60 Hz.



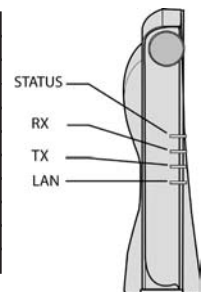
STEP 4

Watch the SurfBeam 2 SM front panel indicators. The RX indicator should flash while acquiring the satellite signal. When the RX indicator goes on steady, the SM is registered.

Note: You must configure your computer to obtain an IP address from the DHCP server. Refer to your computer's operating system (O/S) documentation for instructions.

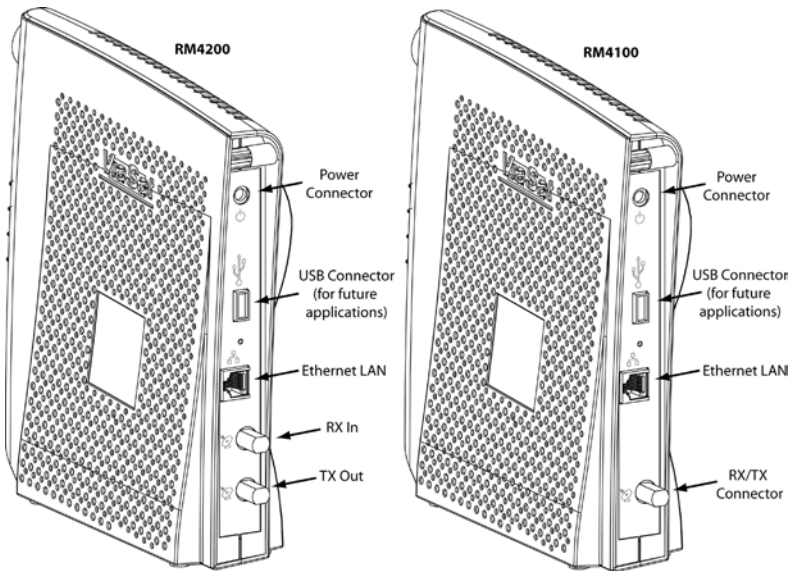
Status
 Rx
 Tx
 LAN

				Power is off
				BIST of LEDs - all LEDs on for 2 seconds after power up
				FL Scanning in process
				Network Entry in progress
				DHCP/Config TFTP in progress
				Online
				Software Download in progress
				Fault detected
				Installation mode in progress
				Terminal is transmitting during normal operation
				Terminal is receiving during normal operation



Key On: Off: Blink: Flicker: LAN:

Rear Panel Connectors:

**If you have a problem:**

1. Make sure you have satellite service. (The RX indicator should be on.)
2. Make sure you have the Ethernet connection. (The LAN indicator should be on.)
3. Make sure you are transmitting to the satellite. (The TX indicator should flash when transmitting.)
4. Make sure all of the connections are correct and tight.
5. Try resetting the SM and in-line power supply. (Disconnect the in-line power supply from the AC power source, wait AT LEAST one minute, and then reconnect power.) The SM should go through acquisition and registration process again.

WARRANTY INFORMATION

ViaSat, Inc. does not provide a warranty to the end user for this product. Any such warranty from ViaSat, including the implied warranty of merchantability or fitness for a particular purpose, is hereby disclaimed.

Your service provider may provide a warranty for this product. For warranty information and repairs, please contact your service provider.

TRADEMARK NOTICE

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DOCUMENTATION NOTICE

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IMPORTANT SAFETY PRECAUTIONS

BEFORE INSTALLING THE SATELLITE MODEM, MAKE SURE YOUR ELECTRICAL OUTLET IS PROPERLY WIRED AND YOUR COMPUTER EQUIPMENT IS PROPERLY GROUNDED. CONSULT WITH A LICENSED ELECTRICIAN IF YOU ARE NOT SURE.

READ AND UNDERSTAND ALL OPERATING INSTRUCTIONS IN THIS USER'S GUIDE.

READ AND UNDERSTAND ALL SAFETY PRECAUTIONS PRIOR TO CONNECTING ANY CABLES TO THE SATELLITE MODEM.

▲ Warnings - A WARNING is defined as a procedure or practice that, if not correctly followed, could result in injury, death, or long term health hazard. Always observe the following WARNINGS:

There are no user-serviceable parts inside any of the equipment in your system. There are potentially lethal voltages inside the equipment. It should only be opened by a technician trained and certified to service the product.

RF Radiation Hazard. The transmitting equipment is capable of generating RF levels above the maximum permissible uncontrolled exposure level. Do not enter the radiation beam pattern of the transmitter feed horn and / or antenna when the transmitter is on.

When the Satellite Modem is powered on, DC voltage is present on the rear panel TX and RX connectors.

To prevent fire or shock hazard, do not expose this appliance to rain or moisture. The apparatus must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.

Postpone satellite modem installation until there is no risk of thunderstorm or lightning activity in the area.

▲ To prevent electrical shock, if the unit is provided with a polarized plug, do not connect the plug into an extension cord, receptacle or other outlet unless the plug can be fully inserted with no part of the blades exposed.

The In-Line Power Supply input power cord must be connected to a properly grounded three-prong AC outlet. Do not use adapter plugs, or remove the grounding prong from the plug.

Cautions - A CAUTION is defined as a procedure or practice that, if not correctly followed, could result in equipment damage or destruction. Always observe the following CAUTIONS:

Only use the in-line power supply provided with the SM. Using a different power supply may cause equipment damage.

To ensure regulatory and safety compliance, use only the provided power and interface cables.

Do not open the unit. Do not perform any servicing other than that contained in the installation and troubleshooting instructions. Refer all servicing to qualified service professional.

Avoid damaging the satellite modem with static by first touching the coaxial cable connector when it is attached to the earth grounded coaxial cable wall outlet. Always first touch the coaxial cable connector on the satellite modem when you are disconnecting or re-connecting your Ethernet cable from the satellite modem or your PC.

To prevent overheating, do not block the ventilation holes on the sides of the unit.

Only wipe the unit with a clean, dry cloth. To avoid equipment damage, never use cleaning fluids or similar chemicals. Do not spray cleaners directly on the unit or use forced air to remove dust.

The user should install an AC surge arrester in the AC outlet to which this device is connected. This is to avoid damaging the equipment by local lightning strikes and other electrical surges.

Notices

This product was qualified under test conditions that included the use of the supplied cable between system components. To be in compliance with regulations, the user must use this cable and install it properly.

Different types of cord sets may be used for connections to the main supply circuit. Use only a main line cord that complies with all applicable product safety requirements of the country of use.

Installation of this product must be in accordance with national wiring codes.

Hereby, ViaSat, Inc., declares that this Satellite Modem is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Environmental Alerts

✓ **WEEE**



ViaSat has marked this product with the WEEE symbol as a convenience to its customers for environmental responsibility per European Union Directive 2002/96/EC. This product shall be collected and disposed of in accordance with national and local laws. Waste electrical and electronic products must not be disposed of with household waste. For information on proper disposal, contact your equipment distributor or service provider.

✓ **ROHS Compliant**

This product is in compliance with EU Directive 2002/95/EC

✓ **REACH Compliant**

This product is in compliance with EU Directive 1907/2006/EC

If additional information is required you may send correspondence to:

Compliance-ProductEnvironmental@viasat.com

☉ ViaSat, Inc. declares that this Satellite Modem is cULus Listed and is in compliance with Canadian and U.S. safety standards and complies with the RoHS directive for hazardous materials reduction.

☉ ViaSat, Inc. declares that this Satellite Modem is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Des Alertes de l'environnement

✓ **WEEE**



ViaSat a marqué ce produit avec le symbole WEEE titre de commodité pour ses clients en matière de responsabilité environnementale de l'Union européenne par la directive 2002/96/EC. Ce produit doit être collectés et éliminés conformément aux lois nationales et locales. Les déchets électriques et électroniques ne doivent pas être jetés avec les ordures ménagères. Pour plus d'informations sur l'élimination correcte, contactez votre distributeur de matériel ou de prestataire de services.

✓ **ROHS Plainte**

Ce produit est en conformité avec la Directive européenne 2002/95/EC

✓ **REACH Plainte**

Ce produit est en conformité avec la Directive européenne 1907/2006/EC

Si des informations supplémentaires sont nécessaires, vous pouvez envoyer la correspondance à: Compliance-ProductEnvironmental@viasat.com

☉ ViaSat, Inc déclare que ce modem satellite est cULus et est en conformité avec les normes canadiennes et américaines de sécurité et conforme à la directive RoHS pour la réduction des matières dangereuses.

☉ ViaSat, Inc déclare que ce modem par satellite est en conformité avec les exigences essentielles et autres dispositions pertinentes de la directive 1999/5/EC.

Alertas Ambientales

✓ **WEEE**



ViaSat ha marcado este producto con el símbolo WEEE para su conveniencia a sus clientes para la responsabilidad medioambiental por la Unión Europea la Directiva 2002/96/EC. Este producto serán recogidos y eliminados de acuerdo con las leyes nacionales y locales. Residuos de productos eléctricos y electrónicos no deben ser eliminados con la basura doméstica. Para obtener información sobre la correcta eliminación, contacte a su distribuidor de equipos o proveedor de servicios.

✓ **ROHS Obediente**

Este producto está en conformidad con la Directiva de la UE 2002/95/EC

✓ **REACH Plainte**

Este producto se ajusta a la Directiva de la UE 1907/2006/EC

Si requiere información adicional, usted puede enviar correspondencia a:

Compliance-ProductEnvironmental@viasat.com

☉ ViaSat, Inc. declara que este módem satélite es cULus y está en conformidad con las normas de seguridad de EE.UU. y Canadá y cumple con la directiva RoHS para la reducción de materiales peligrosos.

☉ ViaSat, Inc. declara que este módem satélite está en el cumplimiento de los requisitos esenciales y otras disposiciones pertinentes de la Directiva 1999/5/CE.