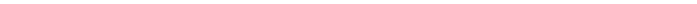

CallFinder[®] GSM Cellular Gateway

CF100FX2-G

Quick Start Guide



Quick Start Guide

82100193L, Revision D

CallFinder[®] GSM Cellular Gateway

Model: CF100FX2-G

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Record of Revisions

Revision	Date	Description
A	10/31/06	Initial release.
B	11/09/06	Revise description of Voice/Data switch.
C	04/24/07	Add AT commands, revise Tech Support listing, revise warranty statement, and add items to Safety Warnings Telecom.
D	04/11/08	Removed CDMA version, add power supply info.

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Introduction

The CallFinder Cellular Gateway connects to a PBX trunk line, PBX extension line, or to a single PSTN (POTS) line and routes incoming and outgoing calls through the wireless network. This Quick Start Guide will detail the physical connections needed for the CallFinder as well as a few basic setup examples and usage precautions.

Safety Warnings

Handling Precautions

All devices must be handled with certain precautions to avoid damage due to the accumulation of static charge. Although input protection circuitry has been incorporated into the devices to minimize the effect of this static build up, proper precautions should be taken to avoid exposure to electrostatic discharge during handling and mounting.

Caution: Maintain a separation distance of at least 20 cm (8 inches) between the transmitter's antenna and the body of the user or nearby persons. The modem is not designed for, nor intended to be, used in applications within 20 cm (8 inches) of the body of the user.

Safety Recommendations for Rack Installations

- Ensure proper installation in a closed or multi-unit enclosure by following the recommended installation as defined by the enclosure manufacturer.
- If installing the wireless CallFinder in a closed or multi-unit enclosure, ensure adequate airflow so that the maximum recommended ambient temperature is not exceeded.
- Do not place the device directly on top of other equipment or place other equipment directly on top of this device.
- Ensure that the device is properly connected to earth ground via a grounded power cord. If a power strip is used, ensure that the power strip also provides adequate grounding.
- Ensure that the main supply circuit is capable of handling the load. See the power label on the device for requirements.
- Maximum ambient temperature is 50 degrees Celsius.
- This device should be installed by qualified personnel.
- Only connect like circuits; e.g., connect SELV (Secondary Extra Low Voltage) circuits to SELV circuits and TN (Telecommunications Network) circuits to TN circuits.

Safety Warnings Telecom

- Never install telephone wiring during a lightning storm.
- This product must be disconnected from power source and telephone network interface when servicing.
- This product is to be used with UL and cUL listed computers.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- To reduce the risk of fire, use only 26 AWG or larger telecommunication line cord.
- Never install a telephone jack in wet locations unless the jack is specifically designed for wet locations.
- Do not connect the FXS port to an outside line (PSTN).
- Connect this product only to an indoor antenna.
- This product is not intended for use on a cable distribution system.

RF Interference Issues

It is important to follow any special regulations regarding the use of radio equipment due in particular to the possibility of radio frequency, RF, interference. Please follow the safety advice given below carefully.

- Switch OFF your Wireless CallFinder when in an aircraft. The use of cellular telephones in an aircraft may endanger the operation of the aircraft, disrupt the cellular network and is illegal. Failure to observe this instruction may lead to suspension or denial of cellular telephone services to the offender, or legal action or both.
- Switch OFF your Wireless CallFinder when around gasoline or diesel-fuel pumps and before filling your vehicle with fuel.
- Switch OFF your Wireless CallFinder in hospitals and any other place where medical equipment may be in use.
- Respect restrictions on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress.
- There may be a hazard associated with the operation of your Wireless CallFinder close to inadequately protected personal medical devices such as hearing aids and pacemakers. Consult the manufacturers of the medical device to determine if it is adequately protected.
- Operation of your Wireless CallFinder close to other electronic equipment may also cause interference if the equipment is inadequately protected. Observe any warning signs and manufacturers' recommendations.

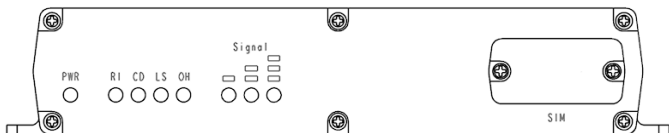
Ship Kit Contents

The wireless CallFinder is shipped with the following:

- One CallFinder Cellular Gateway unit.
- A two-piece DC power supply.
- Four rubber feet for desktop placement.
- One printed Quick Start Guide.
- One CallFinder Cellular Gateway product CD.
- One RJ11 phone cable.
- One serial cable.
- One antenna.

Front Panel

The front panel view shows the LEDs and the SIM compartment of the CallFinder Cellular Gateways.

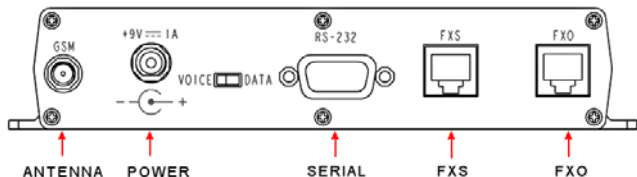


LEDs

- PWR** **POWER** - This LED lights up when the CallFinder unit has operating power.
- RI** **RING** - The ring LED lights up with an incoming ring from the CallFinder's cellular modem.
- CD** **CARRIER DETECT** - This LED is not used at this time.
- LS** **LINK STATUS** - This LED blinks when there is a valid wireless signal. When it is on or off, the wireless strength is low.
- OH** **OFF HOOK** - This LED lights up when a telephony interface port (either FXO or FXS) is active.
- Signal** **SIGNAL STRENGTH** - Three LEDs. If at least one LED is lit, there is enough signal to maintain the wireless connection.

Connections

The back panel view shows the connectors and switches of the CallFinder Cellular Gateways.

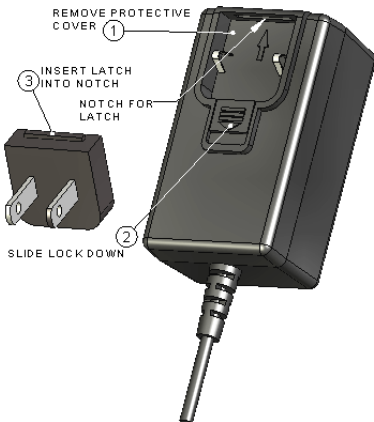


Voice/Data Switch

The Voice/Data switch present on the CallFinder unit is for future expandability. For the GSM CallFinder, it should always be left in the "Voice" position.

Power Supply

Remove the protection frame and attach the provided blade piece to the power unit as shown.



Establishing a Wireless Account

Obtain a wireless account through a Wireless Service Provider. When you establish a GSM account, you will receive from the provider, a SIM card, pre-programmed for your use. You will need to insert the SIM into your CallFinder.

Setup for Wireless CallFinders

Wireless CallFinder Applications. There are four common setups for the CF100FX2-G unit, as shown in the table below.

CallFinder connects to...		Interface	Purpose
Situation 1	an analog telephone	FXS	Cellular service to kiosk or remote location lacking land lines.
Situation 2	a PBX trunk port (also referred to as a CO port)	FXS	Cellular access through PBX trunk port (to enjoy free/reduced cellular rates), as well as emergency phone service in case of PSTN failure.
Situation 3	a PBX station port	FXO	Cellular access through PBX station port (to enjoy free/reduced cellular rates), as well as emergency phone service in case of PSTN failure.
Situation 4	a telco POTS line	FXO	Free or reduced-rate access to a local PSTN from distant cell phones.

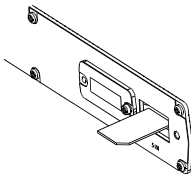
Scope of Manual. This *Quick Start Guide* describes the basic setup for most situations. See the *User Guide* on your product CD for the specific instructions you need to setup the situations mentioned above.

General Setup

Prerequisites:

- You must have the SIM chip from your wireless service provider.
- A small, needle-nose pliers is helpful for inserting the SIM into its receptacle.

1. Remove the CF100 CallFinder unit from its shipping box.
2. Use a small Phillips screwdriver to remove the SIM cover screw that is closest to the edge of the chassis. Loosen the second SIM screw slightly, rotate the cover 180 degrees, and then re-tighten the second SIM screw slightly to keep the SIM compartment open.



3. Orient the SIM to match the marking in the SIM compartment (the notched part of the SIM should be near the outer edge of the CallFinder unit). Insert the SIM into its receptacle (a small needle-nosed pliers can be helpful for this). Loosen the SIM cover screw slightly, rotate the SIM cover 180 degrees to its closed position, and tighten both SIM cover screws.
4. Attach the antenna to the CallFinder.
5. Be sure that the “VOICE/DATA” switch is in the **VOICE** position.
6. Connect power to the CallFinder.
7. Connect the RJ-11 cable to the appropriate receptacle on the rear of the CallFinder.

8. If you intend to mount the CF100 on a flat surface, dimensions are provided in the drawing below.

