

# FX-300 GSM CALL DIRECTOR



## Quickstart Guide

This Quickstart Guide contains Installation and Basic Operation instructions. See the Programming Guide CD for instructions on how to set advanced features/functions such as the Number of Rings, Auto Call Forwarding, and the various Security and Call Barring settings including the GSM CID Private User Group instructions.

## SIPCPE

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# Package Contents

- **FX-300 GSM Triband (900, 1800, 1900)**
- **AC/DC Power Adaptor**
- **External Antennas**
- **Telephone Cord**
- **Programming Guide CD**

## Product Introduction

The FX-300 GSM Call Director connects directly to your VOIP Gateway/ATA's Phone port to integrate your Cell (GSM) phone(s) with your VOIP service. The FX-300 has a built-in GSM tri-band modem and accepts standard SIM cards from GSM service providers worldwide. You will need to purchase an additional SIM card from your GSM service provider and install it in the FX-300. To remotely access your VOIP service you simply call the phone number assigned to the SIM chip installed in the FX-300 and you will be automatically connected to your VOIP service and be able to both make and receive your VOIP calls on your cell phone. With the FX-300 your VOIP service will be available to you anywhere you have cell service saving you both time and money. Moreover, with many GSM service providers your cell to cell (on net) calls are free so the only charges you will incur will be the monthly charge for the new SIM card, which in most cases is less than \$10/mo. Since VOIP calling rates are significantly lower than most cell phone calling rates/plans you will be able to dramatically reduce your cell phone expenses especially if you have an unlimited VOIP calling service plan. Alternatively, if you have an inexpensive or unlimited calling plan on your landline (from Sprint or MCI) you can similarly connect the FX-300 GSM Call Director to your landline to integrate your Cell (GSM) phone(s) with your landline service.

## Installation

### STEP 1

#### **Install SIM Chip (Never install or remove the SIM chip when the power is on!)**

Locate the SIM Chip panel on the bottom of the unit and remove the cover. Gently, install the Sim chip (metal side facing down) provided by your GSM service provider and replace the cover. **Note:** You will first need to disable any pin or password function on the SIM chip. Also if you have "Call Waiting" service on the SIM chip installed in the FX-300 it should be disabled. After power on, if the green LED does not stop flashing, then the SIM chip is not properly installed or the pin is not disabled.



## STEP 2

### Antenna Connection (See Illustration Below)

Locate the antenna connector on the back of the unit. Connect (screw on) the appropriate provided external antenna for you GSM network. Place the antenna in the location for best reception in your home or office. See the signal strength LED on front of the unit after power is on. Note: the signal strength LED takes up to 5 seconds to refresh after the antenna is repositioned.

## STEP 3 (See Illustration Below)

### PHONE port Connection

- Connect the **PHONE Port** on the back of the **FX-300 GSM** to a normal phone handset.  
**Note: The Phone port handset will not function if the LINE port is not connected.**

## STEP 4 (See Illustration Below)

### LINE port Connection

- Connect the **LINE Port** on the back of the **FX-300 GSM** to an active Phone (FXS) Port on your ATA/Gateway, (Grandstream ATA, Sipura, Packet8, Linksys, etc.) or to an analog line in your home or office, or an extension line on your analog PBX.

## STEP 5 (See Illustration Below)

### Power Connection

The FX-300 GSM is shipped with a separate universal AC-DC Power Adaptor with a US plug. Simply plug the AC-DC Power Adaptor into the PWR jack on the back of the FX-300 GSM. **Warning: There is no battery back up in the FX-300 so it will not function if the power is out.**

After powered on, the POWER LED on the front of the FX-300 GSM will be solid red. Once the SIM chip has properly registered with your GSM service provider all 4 LEDs will be lit in solid colors. The signal LED on the right will indicate the cell signal strength. Position the antenna in order to get the best signal strength. **If the green LED does not stop flashing, then the SIM chip is not properly installed or the pin is not disabled.**

STEP 2



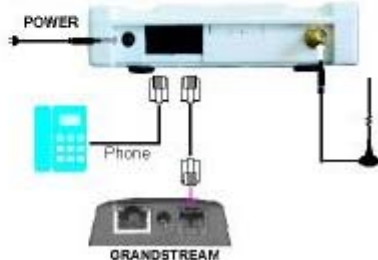
STEP 4



STEP 3



STEP 5



# Basic Operation Guide

**Outbound Calls:** The PHONE port will by default engage the LINE port when the handset is taken off hook. To make your LINE port calls dial as normal. Press # 0 on the handset to engage the GSM line, you will hear a beeping tone then dial your number followed by the \* key to send the call or the FX-300 will send the call automatically after 9 seconds. **Note: The Phone port handset will not function if the LINE port is not properly connected.** You can change the default so the PHONE port will engage the GSM line when the handset is taken off hook. (See code 09 in the Programming Guide CD)

**Inbound Calls on the LINE port:** The FX-300's default settings for the LINE port is to transfer inbound calls to the GSM line for Two Stage Dialing if no answer on the PHONE port after 4 rings. Once the call is transferred to the GSM line the caller will hear a beeping tone. The FX-300 will disconnect the line if the first digit is not entered on the remote handset within 15 seconds. After entering the desired phone number the caller can press the \* key to send the call or the FX-300 will send the call automatically after 9 seconds. When the unit is sending the transit call the MO and CO LEDs will flash. To make additional calls without hanging up, press ## on the remote handset. **If the PHONE port is engaged with the GSM line and then you receive a call on the LINE port**, the call will be ignored (let ring) and/or go to voice mail if voice mail service is activated on your LINE device/service. **Note: You may initially experience some echo on LINE→GSM Transit calls as it can take up to 30 seconds for the internal DSP chip to perform its echo canceling functions.**

**Inbound GSM Calls: Inbound GSM calls will not ring the PHONE port. Inbound GSM calls will automatically connect to the LINE port.** Once the call is connected to the LINE port, the caller will hear the dial tone from the device connected to the LINE port. The FX-300 will disconnect the line if the first digit is not entered on the remote handset within 15 seconds. After entering the desired phone number the caller can press the \* key to send the call or the FX-300 will send the call automatically after 9 seconds. If incorrect numbers are sent, increase the volume on the remote handset and/or try a different handset. When the unit is sending the call the MO and CO LEDs will flash. To make additional calls without hanging up, press ## on the remote handset. **If the PHONE port is engaged with the LINE port and then you receive a call on the GSM line**, the GSM caller will receive a busy tone. **Note: You may initially experience some echo on GSM→LINE Transit calls as it can take up to 30 seconds for the internal DSP chip to perform its echo canceling functions. Also if you have "Call Waiting" service on the SIM chip installed in the FX-300 it should be disabled.**

**GSM Volume Adjustments:** You can adjust the internal GSM modem's Speaker and Microphone volumes from either handset when the GSM line is engaged. **Note: the lower the speaker and microphone settings the better the overall voice quality will be.**

- **GSM Speaker volume adjustment:** press #2 to increase or #3 to decrease the GSM speaker volume. There are 9 levels of adjustment and the default setting is 2
- **GSM Microphone volume adjustment:** press #4 to increase or #5 to decrease the GSM microphone volume. There are 9 levels of adjustment and the default setting is 2

**Note: there is no volume adjustment for PHONE → LINE and LINE → PHONE calls.**

**If there is a transit call LINE→GSM or GSM→LINE in progress and you take the PHONE port handset off hook**, the handset will be able to hear the existing transit conversation. However, if the handset is kept off hook for more than 10 seconds the transit call will be automatically terminated and the handset will engage the LINE port. Moreover, the PHONE port user can manually terminate the transit call and engage the LINE port by pressing the #\* on the PHONE port handset. If you change the default to the GSM line (See code 09 in the Programming Guide CD) then the GSM line will be engaged when a transit call is automatically or manually terminated **Note however, if the LINE port is connected to a PSTN or PBX line the auto disconnect function and the #\* key command may not function properly if the call originated from the LINE port.**

**LINE port Call Waiting Function:** If you answer a LINE port call and then receive a second call on the LINE port you can press the flash key on the PHONE port handset to take the second call if your connected device has "Call Waiting" service. However, if the LINE port call has transited to the GSM line and you receive a second call on the LINE port the remote GSM handset will hear the Call Waiting beeping sound. Likewise, if a GSM call has transited to the LINE port and you receive a second call on the LINE port the remote GSM handset will hear the Call Waiting beeping sound. You can press the #6 key on the GSM handset to take the second call.

**To Manually Disconnect:** The #\* key can also be used from any remote handset connected to the FX-300 GSM to force a disconnection of all engaged ports and return the unit to a ready state.