

Affordable Alarms Technical Tips

Technical Tips: Alarm System Communications to the Monitoring Center

House Wiring your Alarm into the IP Telephone Network:

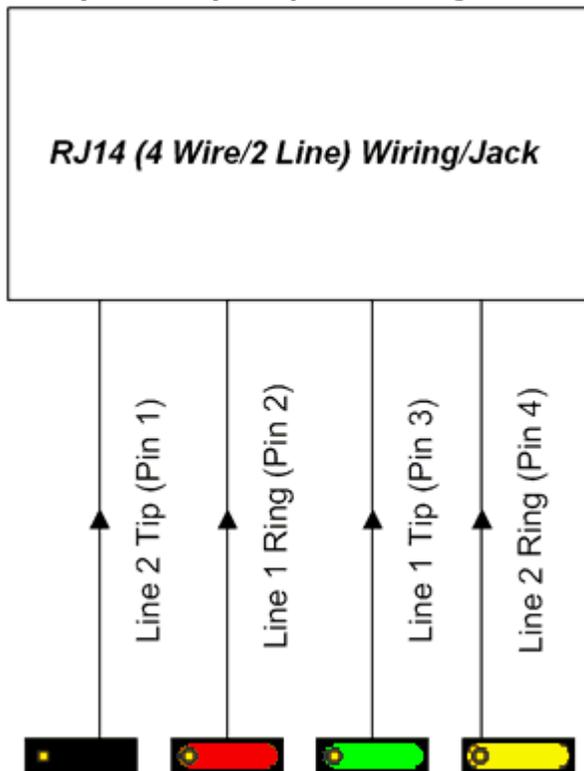
Simple Solution: Plug your alarm systems control panel modular plug into the VOIP Modem and connect your VOIP Phones into your alarm systems modular phone jack. **Done!**

Otherwise - Rewire Line 2 To Your VOIP Adapter (Install Panel elsewhere)

NOTE: Only do this if you are not using DSL service on a separate telephone line, and know what you are dealing with telephone/data wiring. If not, hire a contractor to do this for you. If not done correctly you can damage your equipment.

Most homes are wired for two incoming telephone lines. Your telephone service enters the house through a single connection called a point of entry. This is a 4 wire terminal, two wires for each telephone line. **Line 1:** There should be **four** color-coded **wires** (**Quad**: Red and green; or for **multiple wires**: white blue + blue white; and **Line 2: Quad**: Yellow and black; or for **multiple wires**: white orange + orange white).

RJ14 (Two-Line) Telephone Wiring



What you need to do is to disconnect the yellow and black wires between the point of entry and your inside wiring so that line 2 (yellow + black; or white orange + orange white) inside wiring is not connected to the public telephone network. Leave line 1 (red + green; or white blue + blue white) connected as is; this is the pre-wired feed from the telephone company, for line 1.

VERY IMPORTANT: you must be sure that you have disconnected line 2 inside wiring (yellow + black; or white orange + orange white) from the outside telephone network! Otherwise, you can damage your equipment (due to stray voltage from extra network wires outside of your home or business).

Next, you will connect the yellow and black leads that were connected to the Telephone Company Network Interface (**or not connected, but loose in the Interface box, or looped (wired) through a Main Jack appearance "home run" in your home or business**) to line 1 on the VOIP terminal adapter. The easiest way to do this is to buy a 2 Line modular jack from a local electronics store. Wire the jack as follows: inside wiring black (or white orange) -> to the green terminal on the modular jack inside wiring yellow -> (or orange white) to the red terminal on the modular jack

Then connect your phone's modular plug to the VOIP terminal adapter's modular connector.

FIGURE 1: VOIP wired to Line 2 position of House Wiring. Note: Other colors are used in some homes or businesses (CAT 5 Wiring or multiple pair wiring).

LINE 1: Instead of Red for Tip... the color is (more) White + Blue; Instead of Green for Ring... the color is (more) Blue + White.

LINE 2: Instead of Black for Tip... the color is (more) White + Orange; Instead of Yellow for Ring... the color is (more) Orange + White.

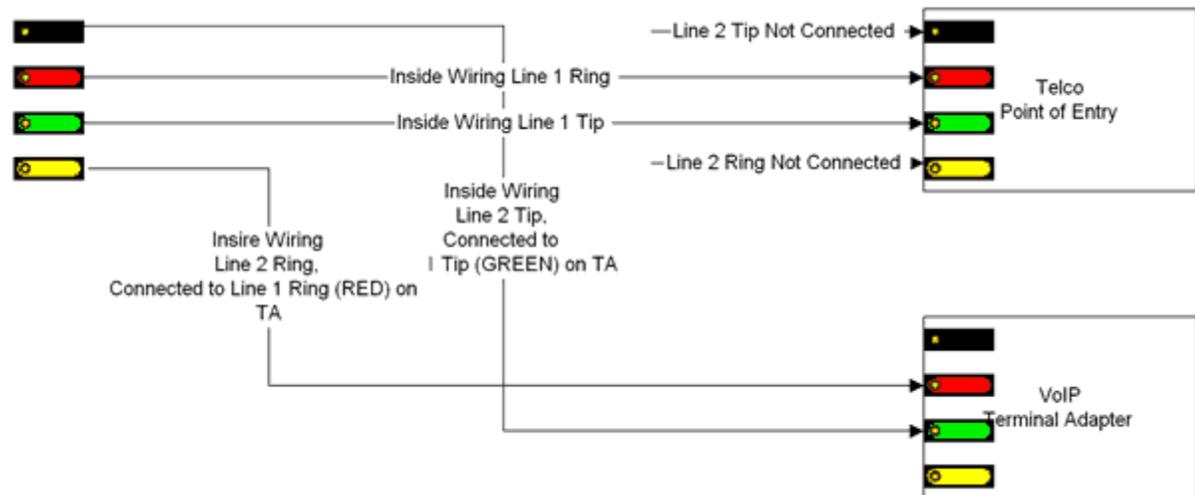


FIGURE 2: Telephones connected to line 2 - will now be connected to the VOIP adapter.

Where to use caution:

Wiring line 2 to your VOIP adapter will enable you to receive and place VOIP calls from any telephone, even old rotary dial telephones and enables you to use VOIP just like your regular primary line.

The main risk in rewiring your house is if you wire the system incorrectly; it's unlikely you'll damage the telephone network (it's designed to take a beating), but you can easily damage delicate terminal equipment.

Another issue to be aware of is that older telephones with electromechanical ringers draw a lot of current to ring their bells. Terminal adapters are usually designed for use with newer self-powered phones that do not use current from the telephone line to power the ringer (speaker). Don't connect your vintage rotary dial telephones to line 2, than can cause low voltage within your terminal adapter; and this can cause your phones not to ring... it could also damage your terminal adapter.

NOTE: When in doubt, hire a local Phone/LAN wiring technician to wire your alarms phone connection (IP Phone wiring) it will take them about a half hour or less, to complete the job.

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