

# **AS-816 Sixteen Port to Eight Line, Line Sharer**

**Version 5.00**

# Table of Content

**TABLE OF CONTENT .....2**  
**INTRODUCTION .....3**  
**INSTALLATION.....3**  
**OPERATION .....4**  
**JUMPER SETTINGS.....5**  
**TECH SUPPORT - 916-786-6186 .....5**  
**WARRANTY .....5**

# Introduction

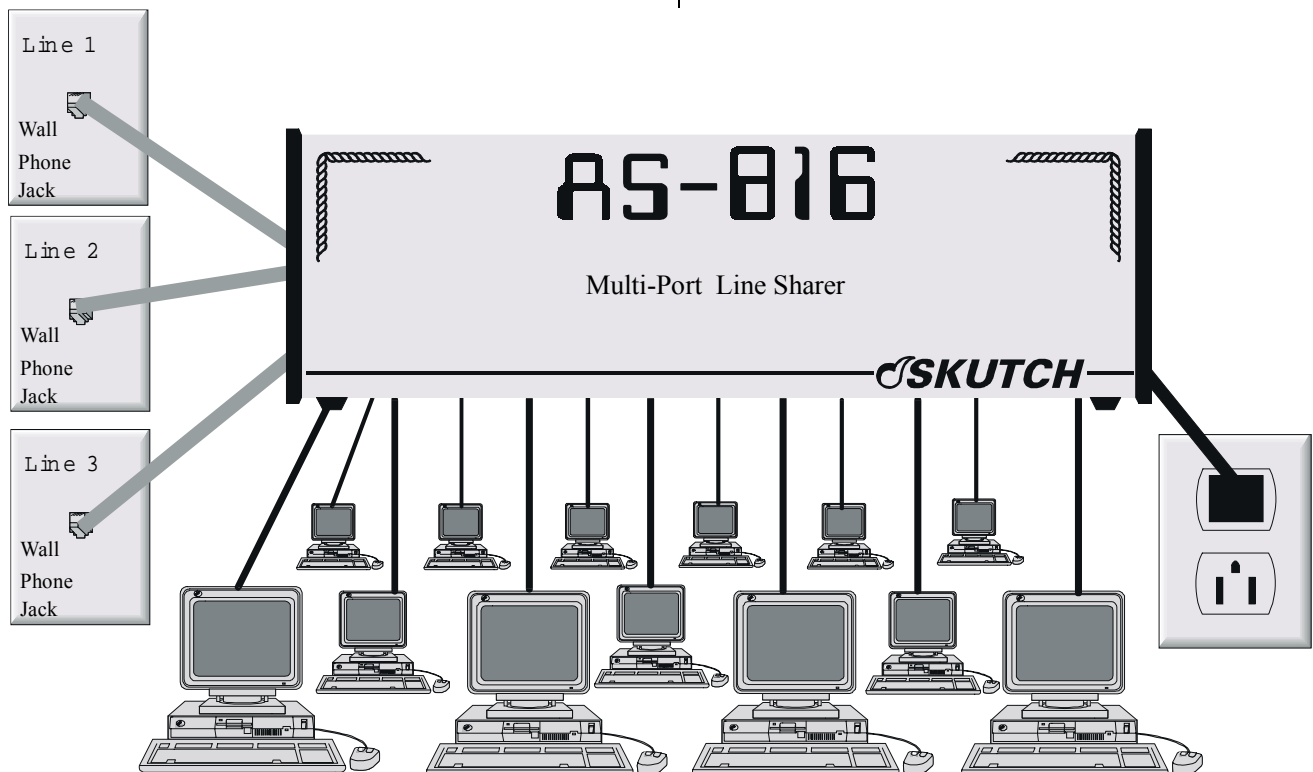
The AS-816 Multi-Port Line Sharer was designed to meet the growing demand for efficient use of out bound telephone lines between many devices. The AS-816 operates on a First Come/First Served basis, allowing up to 16 analog telecommunication devices (ports, i. e. telephones, credit card strip readers, etc.) to use any of the CO lines connected to it (up to 8 CO line per unit). You can increase the efficiency even more with the addition of a slave unit; two AS-816's can share the CO lines with up to 32 analog ports. The AS-816 will give each port equal priority with the others, First Come/First Served; no port will have a higher priority than any of the others.

As soon as a port requests a CO line, this unit will automatically route the port to the first available line. When all lines are in use, the AS-816 automatically disables all "inactive" ports; the ports will be re-enabled when any CO line becomes available. The AS-816 will not accept or pass incoming calls to any port. In case of power outage, no port will be connected to any of the CO lines. The AS-816 is designed to have sole use of the CO lines that it is connected to; attempting to share CO lines between an AS-816 and some other device, i.e. your phone system, will result in the devices "walking"

on each others calls.

# Installation

- 1) Connect a 50 pin Ribbon connector cable from the AS-816 to the CO lines and telecommunication devices.
- 2) If a slave unit is attached, connect a 50 pin Ribbon connector cable from the slave AS-816 to the same CO lines as the master, and also to the remaining telecommunication devices not covered by the master.
- 3) If a slave unit is attached, connect the supplied serial interface cable to the serial connector on each unit.
- 4) Make any jumper setting changes to the unit(s) before you power the unit(s) up (the AS-816 will ignore any jumper changes after power up).
- 5) Connect the power cord from the AS-816 to standard 110VAC house power; if a slave unit is attached, connect the power cords from both units, master and slave, to one power strip (needed to power up both units at the same time) and then you can turn the power on to the strip.



# Connector cable pins

## PORT pin assignments

RING PRIMARY COLOR	RING STRIPE COLOR	RING PIN NUMBER
Blue	White	1
Orange	White	2
Green	White	3
Brown	White	4
Grey	White	5
Blue	Red	6
Orange	Red	7
Green	Red	8
Brown	Red	9
Grey	Red	10
Blue	Black	11
Orange	Black	12
Green	Black	13
Brown	Black	14
Grey	Black	15
n/c	n/c	16
n/c	n/c	17
Green	Yellow	18
Brown	Yellow	19
Grey	Yellow	20
Blue	Purple	21
Orange	Purple	22
Green	Purple	23
Brown	Purple	24
Grey	Purple	25

TIP PRIMARY COLOR	TIP STRIPE COLOR	TIP PIN NUMBER
White	Blue	26
White	Orange	27
White	Green	28
White	Brown	29

White	Grey	30
Red	Blue	31
Red	Orange	32
Red	Green	33
Red	Brown	34
Red	Grey	35
Black	Blue	36
Black	Orange	37
Black	Green	38
Black	Brown	39
Black	Grey	40
n/c	n/c	41
n/c	n/c	42
Yellow	Green	43
Yellow	Brown	44
Yellow	Grey	45
Purple	Blue	46
Purple	Orange	47
Purple	Green	48
Purple	Brown	49
Purple	Grey	50

## Operation

In normal operation, the AS-816 will route a port to the first available CO line whenever the port requests a line (goes "OFF HOOK"). When a port finishes the call (goes "ON HOOK"), the AS-816 will do the following:

- **Immediately drop the CO line the port was using,**
- **Disconnect the port from that CO line,**
- **Either, disable the port, if in an overflow condition, or start looking for that port to request another line, if not in an overflow condition, and**
- **Wait two seconds before making that CO line available again.**

Once the last available line has been assigned to a port, the AS-816 will go into an overflow condition. In an overflow condition, the unit will disable, cut the "Talk Battery", from all ports that currently are not connected to a CO line. During an overflow condition, the AS-816 will disable a port after that port finishes its call. The overflow condition is cleared when any CO line becomes available (2 seconds after a port finishes its call, the

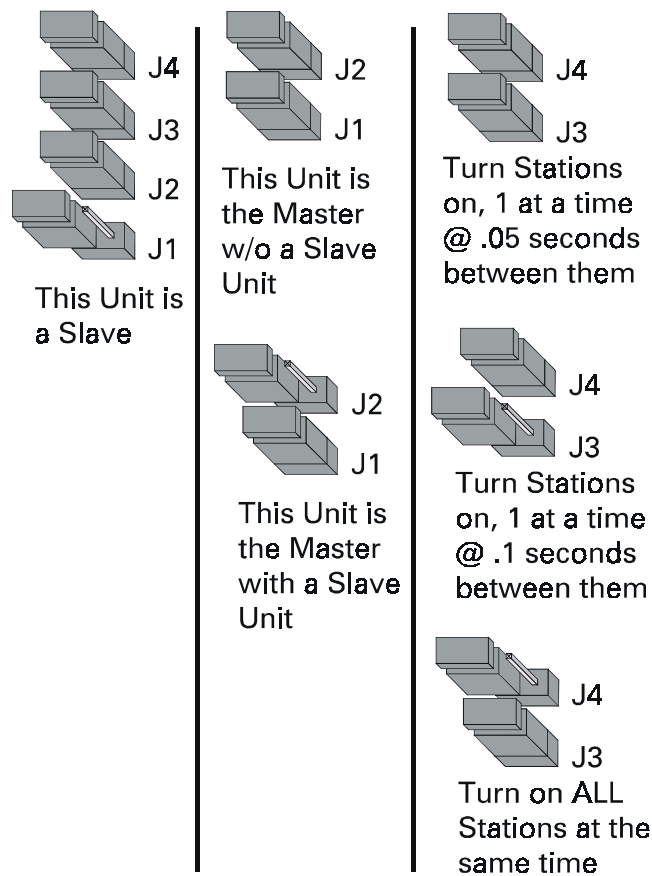
line it was connected to becomes available). On recovering from an overflow condition, the AS-816 can reactivate all of the ports at the same time, or it can activate each port in sequential order with a .05 second or .1 second space between each port activation (see the Jumper Settings). If you use one of the sequential activation settings, the AS-816 will automatically increment the starting port number; i.e. it starts with port 1, after an overflow it starts with port 2, after the next overflow it starts with port 3, and so on, until it finally recycles to port 1; this is the fairest way to implement a sequential activation format.

# Tech Support - 916-786-6186

If you have any problems getting the unit to work properly feel free to give us a call. Technical Support is available between the hours of 7:30 AM and 4:30 PM Pacific Time, Monday through Friday.

## Jumper settings

**CAUTION:** There are points inside each AS-816 with 110VAC on them; do NOT have the unit open when the power is connected to the unit.



## WARRANTY

This SKUTCH PRODUCT is warranted against defects for a period of one (1) year from the date of the original invoice. Within this period, we will repair it without charge for parts and labor. To obtain warranty service the product must be returned, at the customer's expense, to SKUTCH Electronics along with a copy of the original invoice. After the unit has been repaired, SKUTCH will ship the PRODUCT back via UPS GROUND service at our expense. If any other form of return shipment is requested, the customer will pay for 100% of the shipping cost.

This Warranty does not apply if in the sole opinion of SKUTCH Electronics, the PRODUCT has been damaged by lightning or any other Acts of God, or by accident, misuse, neglect, or improper packing, shipping, modification or servicing by other than an authorized SKUTCH Service Center.

EXCEPT AS SPECIFICALLY PROVIDED IN THIS AGREEMENT, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND IN NO EVENT SHALL SKUTCH ELECTRONICS BE LIABLE FOR LOSS OF PROFITS OR BENEFITS, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER SIMILAR DAMAGES ARISING OUT OF ANY BREACH OF THIS WARRANTY OR OTHERWISE.