

## 3311R Automatic Ringdown Circuit Card Installation Guide

### Description:

The 3311R Automatic Ringdown Circuit card enables two telephones to ring one another and communicate. Lifting the handset of one telephone will ring the other until answered or the initiating telephone hangs up. Anytime both telephones are off-hook a talk path is established. A ring back tone is provided to the initiating telephone. Four ring cadences are offered as described below.

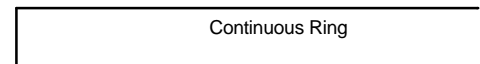
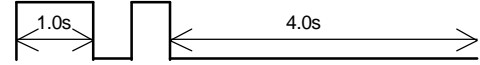
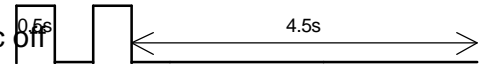
The 3311R card is installed in Algo's 3500 Rack mount shelf, which can hold up to 16 cards. Each card maps to a 2 wire pairs on the shelf back planes 25 pair connectors as shown in the attached diagram. T1&R1 are the pair associated with the OH1 light (off-hook one), T2&R2 are associated with the OH2 light (off-hook two).

The OH1 light will be on anytime the telephone connected to T1&R1 is off-hook. Similarly, the OH2 light will be on anytime the telephone connected to T2&R2 is off-hook.

### Installation:

1. Power down the shelf prior to installing or removing a 3311R card.
2. Set the desired ring cadence by adjusting SW01 behind the front panel near the LED lights. The switch is ON when slid away from the front panel. Position 1 is closest to the LED lights. The default setting is both switches off, providing a standard North American 2 sec on 4 sec off ring cadence.

Pos1	Pos2	Cadence	
Off	Off	2 sec on – 4 sec off	
Off	On	0.5 sec on – 0.5 sec off – 0.5 sec on – 4.5 sec off	
On	Off	1 sec on – 0.5 sec off – 0.5 sec on – 4 sec off	
On	On	Continuous ring	



3. Install the card in an available slot and screw the top and bottom screws into the shelf rail. (Do not install a card in the far right slot, which must remain blank.)
4. Apply power to the shelf
5. The PWR light on the 3311R card will turn on and the card will be active within 3 seconds.

## Operation:

### Idle Mode:

With both telephones hung up (on-hook), only the PWR light will be on.

### Ring Mode:

If the telephone handset of the telephone connected to T1&R1 is picked up, the OH1 light will go on and the RING light will be on during the ringing portion of the chosen ring cadence and the telephone connected to T2&R2 will ring. A ring back tone should also be heard on the handset of the telephone. The reverse will occur if the telephone handset associated with T2&R2 is lifted.

Placing the handset back on the telephone will discontinue ringing and return the circuit to idle.

### Talk Mode:

Anytime that both telephones are off-hook the 3311R card will provide a speech path between the two telephones. Both OH1 & OH2 lights will be on. Both telephones must return to an on-hook state before a telephone will ring as a result of the other telephone going off-hook.

## Specifications:

Ring Capacity	2	REN
Supply Voltage	30	Vdc
Supply Current		
Idle	40	mA
Ring Mode (typical)	145	mA
Talk Mode	110	mA
Loop Limit (24 awg)	2,000	Ft

