

# **QWIKCONNECT™**

## **Ringdown Unit / Phone Line Simulator**

### **Installation Guide**

#### **Features**

Instant off-hook access between two telsets or equivalent devices; install anywhere in circuit within loop resistance limits. Also supports modems and facsimile or answering machines; CPC disconnect signal provided.

LED off-hook indication and multiple user-selectable ringing cadences.

Contains ringing and filtered talk-battery sources: operate from either dc or a simple ac wall adapter.

#### **Mechanical installation--surface mounting**

Mount unit in any position with any of three methods:

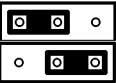

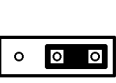


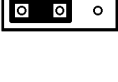



- Double-sided tape on front or rear.
- Two 8-32 screws into internal threads.
- Two 6-32 (or smaller) screws, free through mounting holes and secured by nuts, or two wood screws; this option also allows stacking units to conserve space.

#### **Electrical installation--pcb mount**

**QWIKCONNECT™** may be mounted to a printed circuit board, e.g. in OEM applications, by using the threaded holes described above for mechanical mounting and the provided through-holes, paralleled to the screw terminals, for electrical connections via header pins rising from the motherboard. Refer to the drawing at right for locations of the through-holes corresponding to the power and telset connections.

#### **Cadence selection**

For Standard and Long-line models select the desired ringing cadence by positioning the shunts on headers J1 and J2 as shown in the following illustration.

On/off seconds	J1	J2
Continuous		
1/1		
2/2		
2/4		
4/8		
Disable		

#### **Electrical installation--power**

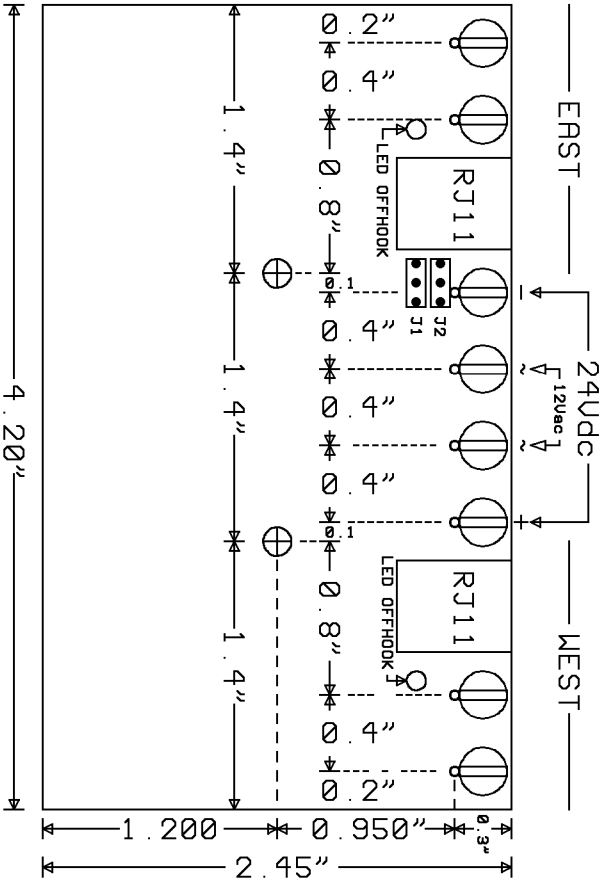
Standard and Long-line models may be powered from 12 Vac as above, or from dc by connecting the appropriate dc supply to the marked screw terminals; observe proper polarity. For temporary field use (sales demonstrations, order wire, cable testing) power Standard unit from three 9 V batteries snapped together in series.

For use with off-premise line, strap the positive dc lead to earth ground to prevent electrolytic corrosion of the copper pair.

#### **Electrical installation--telset**

Connect East and West telsets or equivalent devices to the respective Tip/Ring screw terminals or RJ-11 jacks.

Unit is internally protected with Zener diodes sufficient for on-premise applications.



## Use outside North America

North American standard ringing utilizes a 20 Hz signal which may not operate ringers in some other countries especially Germany, which requires 25 Hz or above. Units with custom ringing voltages and frequencies for use outside North America are available at standard prices.

## Use with devices expecting dial tone

An automatic ringdown device generates no dial tone because it requires no dial string. However modems or modem-like devices may in some cases require dial tone before executing some function. Such devices may be configured to operate by enabling "blind dial" with the initialization string ATX0. Consult user manual for the device in question.

## Functions

1. When a device connected to either port goes off hook, send ringing voltage to the device connected to the other port. These devices may be ordinary telsets, cordless phones, the trunk ports of PABXs or Key Systems, or other equivalent devices such as fax, modem, ACD, or telephone interface module of a central dictating system. When the called port answers, latch ringing off and cut the calling port through to the called port.

**Ringing power** 70 V 20 Hz modified square wave  
(Economy and Standard models)

**Ringing cadence** Option  $\left( \begin{array}{l} \text{Continuous} \\ 1 \text{ sec on}/1 \text{ sec off} \\ 2 \text{ sec on}/2 \text{ sec off} \\ 2 \text{ sec on}/4 \text{ sec off} \end{array} \right)$

**Hook-status indicator** LED

**Protection** Tip-Ring Zener-clamped for on-premise applications.

**Size** 5/8 x 4-1/4 x 2-1/2" (16 x 108 x 64 mm)

**Weight** Six ounces (170 grams)

**Housing** Monolithically encapsulated in UL 94V-0 flame-resistant epoxy resin

**Termination** 4-40 screws  
RJ-11 jacks

**Operating environment** 14 to 140° F (-10 to 60° C)

2. During ringing provide ringback tone to the calling port.

3. When either port returns to on-hook status, send CPC signal (interruption of loop current for ~500 milliseconds) to opposite port without restarting ringing.

4. Provide hook-status indication of each port via LED (Standard and Long-line models only).

## Specifications

**Power input** 12 Vac at 700 mA max  
*in addition* 20-28 Vdc at 300 mA max

**Talking power** 24 Vdc at 50 mA (Standard model)

**Line feed type** Two-wire unbalanced

**Maximum loop resistance** 600  $\Omega$

## Warranty

Manufacturer warrants its products to be free of failure for a period of one year from date of shipment. Any unit returned within this one-year period will be repaired or replaced free of charge unless Manufacturer determines that the failure occurred due to improper installation, physical damage, or operation outside of specified limits. This warranty is in lieu of all other warranties implied or expressed. Manufacturer shall not be liable for operation delays or consequent damages of any type.



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**QWIKCONNECT Part #CAP7A**