

AutoHybrid

Telephone Audio Interface



CE

Product Overview

The JK Audio AutoHybrid is a simple, passive, auto-answer/disconnect telephone line hybrid. This low cost telephone interface allows simultaneous send and receive audio through analog telephone lines. Not just another half duplex auto-coupler, this is a full duplex AutoHybrid. Perfect for remote monitoring, IFB feeds, and many simple studio, conferencing, and PA telephone interface applications. Use it anywhere you need auto-answer telephone line connectivity without the expense or advanced features of a digital hybrid.

The small desktop unit easily converts to a rack-mount unit using the optional RA4 Rack Panel. The RA4 holds four AutoHybrids in a 1U rack space. That's four hybrids in a 1U space, or 8 hybrids in a 2U rack space.

The dual transformer hybrid circuit provides a nominal 20 dB separation of send and receive audio. Detachable screw terminal block for easy access to remote control features. Balanced XLR jacks provide easy connection to professional audio equipment.

JK Audio

Telephone Interface Products

815-786-2929

1-800-JK-Audio

www.jkaudio.com

AutoHybrid

Telephone Audio Interface

Features

- Passive operation - draws power from the phone line
- Transmit line level female XLR
- Receive line level male XLR
- Selectable auto-answer / auto-disconnect
- Hybrid null adjust - up to 20 dB separation
- Front panel Off-Hook LED
- Detachable remote screw terminal block provides:
 - Off-hook control
 - Release control
 - OH LED signal



Optional RA4 1U rack panel holds up to four AutoHybrids (sold separately)



Auto-Answer Details

The "Auto" feature is very simple. When the "Auto" switch is selected, AutoHybrid will answer on the first ring. The phone line will remain off-hook, or seized, until either the Drop button is depressed, a Drop signal is received on the rear panel screw terminal connector, or until the phone company releases the line by providing either a polarity reversal or a momentary loss of line current. Keep in mind that it can take several seconds, sometimes up to a minute before the phone company will provide this release signal. Also keep in mind that some business PBX telephone systems do not provide this release signal.

Null Adjust Details

The front panel Null adjust allows you to fine tune the separation between send and receive audio. Specifically, this control adjusts the hybrid to remove transmit signal from the caller signal. This control does not affect the send signal in any way. The dual transformer hybrid is capable of 20 dB nominal transhybrid loss. In other words, your transmit signal will appear mixed with the receive signal, but at a level as much as 20 dB lower than it was sent into the phone line.

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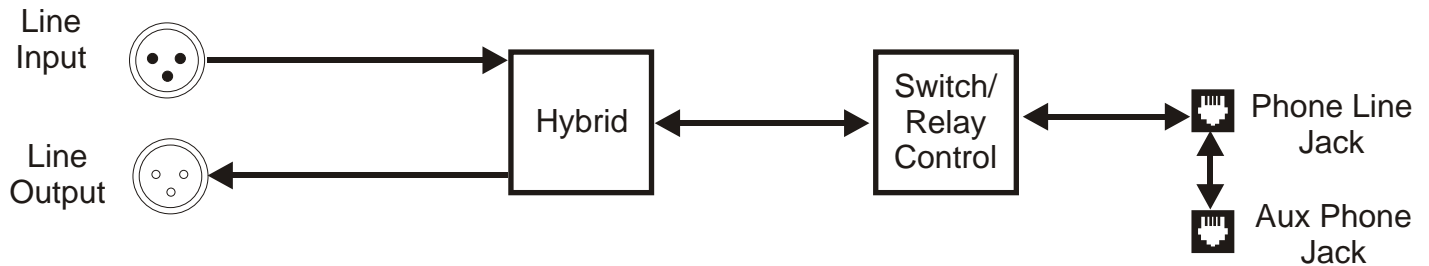
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JK Audio, Inc.
AutoHybrid
Block Diagram
2/04 - WR

Specifications

Input:

Transmit XLR: Balanced Female XLR, 800 ohms, 500 mV RMS (+4dBV max)

Insertion Loss: 9dB Send XLR to Phone Line

Output:

Receive XLR: Balanced Male XLR, 600 ohms, 200 mV RMS (-15 dBm nom)
Balanced Line Level

Phone Line Connector: RJ11C
1500 VAC Isolation
0.8B REN

Auxiliary Phone Connector: RJ11C

Screw terminals: Off-hook control (+5 VDC momentary)

Release control (+5 VDC momentary)

OH LED signal (pulled to ground on OH)

Size: 4" x 5" x 1.5" (10.5 x 13 x 4 cm)

Weight: 12 ounces

FCC, Austel, & European CE approvals in process.

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