



Broadcast Audio

sph10 Analog Telephone Hybrid

Interfacing your audio equipment to a telephone line has never been easier or more affordable. The SPH10 Analog Hybrid uses the latest in analog technologies to provide you with a great combination of price and performance.

The SPH10 provides an entry-level telephone interface between a standard telephone line and your audio equipment, allowing you the ability to send audio to and receive audio from a connected telephone line. The SPH10 hybrid provides a nominal 12dB of send audio to caller audio separation. The SPH10 works well for talk shows, news feeds, production, recording studios, and Internet applications.

The SPH10 enhances the audio of all your calls. Gentner's exclusive audio filtering eliminates unwanted noise and hum while maximizing the intelligibility of caller audio. Plug a speaker into the monitor jack and monitor incoming calls hands-free.

Installation is a snap! Connect the SPH10 to a telephone line and a telephone set. Then plug it into your equipment using the balanced XLR connections. Independent send and caller level controls allow you to optimize the audio levels sent to and received from the telephone line.

Controlling the hybrid is just as easy. Press the On and Off buttons located on the front panel to connect and disconnect the telephone line. Also, On/Off control of the SPH10 may be remotely activated.



The SPH10 works well for talk shows, news feeds, production, and recording studios.

Features and Benefits

- Newest analog hybrid technology provides a great combination of price and performance.
- Audio filtering makes callers sound as good as possible
- Balanced XLR input and outputs
- Balanced and unbalanced mix outputs for recording both sides of the conversation
- Built-in monitor amp allows hands-free monitoring of calls without a headset
- · Easy to install and simple to operate
- · Automatically accepts all worldwide voltages
- Worldwide compliant including FCC, CSA, CE and CTR21
- · Dry line capability

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Specifications

Dimensions (LxDxH)

17.125" x 10.125" x 1.75" 43.5 cm x 4.44 cm x 25.7 cm

Weight

6.35 lb/2.88 kg (dry) 10.95 lb/4.97 kg (shipping)

Operating Temperature

32-100°F/0-38°C

Humidity

0-80 percent

Controls

On/Off Buttons Volume Up/Down Buttons

Status LEDS

On Status, Off Status

Adjustments

Send Input Level Caller Output Level Auxiliary Input Level Auxiliary Output Level Mic/Line Select Caller Boost Select Momentary/Latching Select

Power: IEC Type

Auto Adjusting 100-240VAC, 2A, 50/60Hz, 30W

Remote: DB25 Female

Remote Send Input: 0dBu nominal, adjustable, unbalanced, 20k Ω impedance

Remote Caller and Aux Output: 0dBu nominal, adjustable unbalanced, 50Ω impedance

Control Inputs: Remotely activate any of the following functions with a switch closure to ground: On, Off, and Monitor Mute

Status Outputs: Remotely check the status of the hybrid using the On and Off status outputs. Status outputs are open collector outputs rated at 30VDC and 40mA maximum.

Monitor Output: 1/4" stereo jack 1W output into an 8Ω load

Send Input: XLR female

Mic/Line selectable, -55/0dBu nominal, adjustable, balanced, bridging, $20k\Omega$ impedance

Caller Output: XLR male

0dBu nominal, adjustable, balanced, 50Ω impedance

AUX Output: XLR male

0dBu nominal, adjustable, balanced, 50Ω impedance

Telco Line: RJ11 connector

POTS (plain old telephone service) line or analog extension from a PBX or dry line (no DC offset voltage). A-Lead supervision provided

Telco Set: RJ11 connector

A-Lead supervision provided

Telephone Transmit

Nominal send input of 0dBu referenced to -15dBu onto the telephone line

Frequency Response: 250Hz to 3.5kHz,

 $\pm 1 dB$ SNR: >56dB Distortion: <0.2%

Telephone Receive

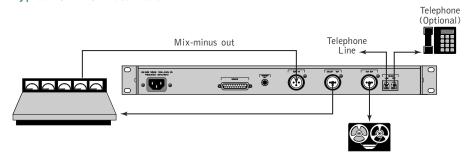
Nominal telephone line level of -15dBu referenced to caller output of 0dBu. Frequency Response: 250Hz to 3.5kHz, ± 2 dB

SNR: >56dB Distortion: <0.3%

Null

Send-to-Caller Separation: 12dB nominal

Typical SPH10 Installation



Gentner Corporation \sim 1825 Research Way, Salt Lake City, UT 84119 \sim 1-800-945-7730 \sim www.gentner.com