



Broadcast Audio

DH20 Digital Telephone Hybrid

Are you looking for the very best, most affordable digital telephone hybrid available? You just found it. The DH20 Digital Hybrid incorporates the latest in DSP technology to provide you with the best sound and easiest installation.

The DH20 is a high quality single line telephone interface that interconnects 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 DH20 is ideal when the very best audio quality is required for talk shows, news feeds, production, recording studios, and internet applications.

Our newest DSP technology delivers better and more reliable sound quality. The DH20 delivers the deepest and most stable hybrid null, ensuring maximum isolation between the send and caller audio. That means no echo and no "bottom of the barrel" sound.

In addition, we've added selectable automatic gain control (AGC) and caller ducking. With AGC, each call will be delivered to your equipment at the same level. Caller ducking reduces the caller's audio level when the announcer speaks, providing a more "controlled" environment. We've also added a speaker amplifier so you can connect a speaker directly to the unit and monitor callers without headphones.

Installing hybrids used to be a hassle. If your console didn't have a mix-minus bus, it was difficult to create one. The DH20 solves this problem with internal mix-minus. Simply take the mix output of your console and feed it to the DH20.



The DH20 is a high quality single line telephone interface that features selectable AGC.

Features and Benefits

- · The world's best, most affordable digital hybrid
- DSP digital technology ensures the very best audio quality and the deepest, most reliable hybrid null
- Easy to install, simple to operate
- Built-in speaker amplifier
- Balanced audio in and out
- Mic or line input
- Selectable AGC ensures every caller is at the same audio level
- Selectable caller ducking
- Selectable auto-answer/auto-disconnect compatible with most telephone central offices including loop current interruption and busy/reorder tones
- · Remote control and status
- 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" 43.6 x 25.7 x 4.44 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 Send Audio Presence Caller Audio Presence

Adjustments

Send Input Level Caller Output Level Auxiliary Input Level Auxiliary Output Level Burst Adapt Select Mic/Line Select Caller Boost Select Momentary/Latching Select Auto Answer/Disconnect Select Caller Control Select (0, 6, 12, or 18dB) AGC Select Auto Mix-Minus Select Aux Mix Select

Power: IEC Type

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

Remote: DB25 Female Remote Send Input:

0dBu nominal, adjustable, unbalanced, $20k\Omega$ 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 out puts are open collector outputs rated at 30VDC and 40mA maximum

Monitor Output: 1/4" stereo jack

Tip=+phase, Ring=ground, Sleeve=ground, 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 OdBu referenced to -15dBu onto the telephone line. Frequency Response: 250Hz to 3.5kHz, $\pm 1dB$

Signal to noise ratio: >56dB Distortion: < 0.2%

Telephone Receive

Nominal telephone line level of -15dBu referenced to caller output of OdBu Frequency Response: 250Hz to 3.5kHz, $\pm 1 \text{dB}$

Signal to noise ratio: >56dB

Distortion: < 0.2%

Send-to-Caller separation: 55dB nominal

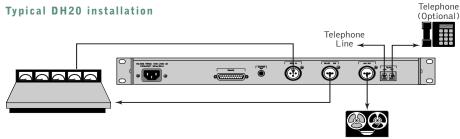
Tail time: 32 milliseconds

Mix-Minus

Caller-to-Send separation: 50dB nominal

Tail time: 32 milliseconds

Typical DH20 installation



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