



DH22 Digital Telephone Hybrid

Are you looking for the very best, most affordable dual digital telephone hybrid available? You just found it. The DH22 Dual Digital Hybrid incorporates the latest in DSP digital technology to provide you with the best sound and easiest installation.

The DH22 is a high quality dual line telephone interface that interconnects two standard telephone lines and your audio equipment, allowing you the ability to send audio to and receive audio from the connected telephone lines. The DH22 is ideal when the very best audio quality and conferencing capabilities are required in talk shows, news feeds, production, recording studios, and Internet applications.

Our newest DSP technology delivers better and more reliable sound quality. The DH22 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 DH22 solves this problem with the internal mix-minus. Simply take the mix output of your console and feed it to the DH22.



The DH22 interconnects two standard telephone lines and your audio equipment.

Features and Benefits

- The world's best, most affordable dual digital hybrid
- Two digital hybrids in one chassis
- 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 auto mix-minus
- Selectable AGC
- Selectable caller ducking
- Selectable auto-answer/disconnect
- Remote control and status
- Automatically accepts all worldwide voltages
- Worldwide compliant, including FCC, CSA, CE and CTR21
- Dry line capability



Specifications

Dimensions (LxDxH)

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

Weight

6.4 lb/2.9 kg (dry)
11.3 lb/5.13 kg (shipping)

Operating Temperature

32–100° F/0–38° C

Humidity

0–80%

Front Panel Controls

Hybrid 1 and 2 On/Off Buttons
Volume Up/Down Buttons
On Status, Off Status
Hybrid 1 and 2 Send Audio Presence
Hybrid 1 and 2 Caller Audio Presence

Adjustments

Send Input Level
Caller 1 and 2 Output Levels
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
Caller 1 Mix 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 Ω impedance

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

Control Inputs: Remotely activate any of the following functions with a switch closure to ground: Hybrid 1 and 2 On, Off, and Monitor Mute

Status Outputs: Remotely check the status of the hybrid using the Hybrid 1 and 2 On and Off, Send and Caller Presence status outputs. Status outputs 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 8 Ω load

Send Input: XLR female

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

Caller 1 and 2 Outputs: XLR male

0dBu nominal, adjustable, balanced,
50 Ω impedance

Aux Output: XLR male

0dBu nominal, adjustable, balanced,
50 Ω impedance

Telco 1 and 2 Lines: 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 1 and 2 Sets: 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,
 ± 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,
 ± 1 dB

SNR: >56dB

Distortion: <0.2%

Null

Send-to-Caller separation: 55dB nominal
Tail time: 32 milliseconds

Mix-Minus

Caller-to-Send separation: 50dB nominal
Tail time: 32 milliseconds

Typical DH22 installation with independent callers

