

innkeeper 4™

Multi-Line Digital Hybrid



FEATURES

	1rx	i2	i4
» Excellent Separation of Caller and Talent Voice	•	•	•
» 16 bit DSP Technology	•	•	•
» Auto-Answer (Switchable On/Off)	•	•	•
» Proprietary Auto Null Algorithm (50 dB null)	•	•	•
» Conferencing		•	
» AGC, Ducking, Presence	•		
» 1 kHz Tone Generator	•	•	•
» Memory/Speed Dial		•	•
» Alpha-Numeric Keypad		•	•
» Menu with Backlit LCD Display		•	•
» Send XLR Line Input	1	2	4
» Mic/Line Switch	•		
» Master Send XLR		•	•
» Caller XLR Line Output	1	2	4
» Mix Out XLR Line Output	•		
» Front Panel 1/4" Headphone Jack	•		
» Monitor Handset Jacks		2	4
» Remote Control via Screw Terminals or RS-232	•	•	•
» RIU-IP Remote IP Interface	•	•	•
» Monitor Speaker Terminals	•		
» Send and Caller Signal Level LEDs	•	•	•
» Send and Caller Volume Controls	•	•	•

When a Single-Line Hybrid Isn't Enough.

Innkeeper 4 squeezes four independent digital hybrids in a 1U rack space. The front panel keypad, display, and handset jacks provide easy speed dialing and call setup. Digital hybrids allow you to send signals into the phone line while maintaining excellent separation between your voice and the caller. The balanced XLR output jacks contain only the caller's voice. Digital hybrids connect audio signals to standard analog telephone lines without the transmit / receive crosstalk common to analog hybrids. The Digital Signal Processor (DSP) continuously monitors both the phone line and audio signals to deliver excellent separation. This proprietary, dual-convergence echo canceller algorithm can achieve excellent separation, typically exceeding 50 dB, without any setup and without sending a noise burst down the line.

The menu driven keypad and back lit display allow you to store 50 phone numbers by name in a phone list. You can also use the display to set features such as the number of rings before auto answer, master send channel selection, and test tone output. An auxiliary telephone jack is provided for each line. The auxiliary telephone is disconnected when you press the "Call" button, and reconnected when you press the "Drop" button. Innkeeper 4 features Auto-Answer/ Auto Disconnect for use in IFB and monitoring applications. Other applications include: telephone interviews, talk shows, church PA interface, and conference room full duplex applications.

innkeeper 1rx and innkeeper 2 shown for comparison

1rx = innkeeper 1rx i2 = innkeeper 2 i4 = innkeeper 4

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SPECIFICATIONS

Input

Balanced Female XLR:	20k ohms 500 mV RMS; -4 dBu nom.; +10 dBu max
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Output

Balanced Male XLR:	200 ohms 500 mV RMS; -4 dBu nom.; +10 dBu max
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Distortion:	0.4% THD @ 12 dBu
Frequency Response	160 Hz - 3400 Hz (+/- 3 dB)
S/N Ratio (No Caller):	92 dB
S/N Ratio (During Call):	49 dB
Handset:	Front panel handset jacks biased for electret handset (not included)

CE

Phone Line:	RJ11C
Aux Phone:	RJ11C
Ringer:	0.8B REN
Impedance:	600 ohms nom.
Isolation:	1500 VAC
Remote Control:	ASCII RS-232 (DB9)
	Screw Terminal I/O
	IP Web Server (optional)
Recommended Operating Temperature:	-20°C to +40°C
Power:	120-240 VAC 50-60 Hz power supply (internal)
Dimensions:	1.75" x 7.3" x 19" (4.5 x 18.6 x 48.3 cm)
Weight:	7.2 pounds (3.2 kg)

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BLOCK DIAGRAM

