

TS612 VERSION 2.5

MULTI-LINE TELEPHONE HYBRID



PRODUCT OVERVIEW

The TS612 is a multi-line telephone system designed to bring caller audio into a broadcast situation.

The mainframe contains two internal digital hybrids that provide high-quality interface to six telephone lines (expandable to 12). The dual hybrids allow the TS612 to operate as a single-studio telephone system able to conference up to four callers simultaneously or as a two-studio system able to conference two callers to each studio.

The TS612 supports a dedicated call-screening control surface. An off-air screener takes incoming calls and places them in a screened-hold queue.

The on-air talent or producer presses the NEXT button on the main control surface and the call is immediately on-air.

The integrated mix-minus provides superior audio quality and simple installation. Automatic gain control (AGC) provides consistent audio levels on all calls. The TS612 can be configured to operate as a single-studio dual hybrid system, or as two independent studios with a single digital hybrid for each studio. The system is expandable via the Network Interface to accommodate up to 9 studios sharing 12 telephone lines.

FEATURES/BENEFITS

- Split-Caller mode brings the two hybrid outputs to the audio console independently.
- Split-Hybrid mode brings the two hybrid outputs to the console independently and returns your program mix to the TS612 on two separate channels.
- Previous-Hold places calls on hold automatically when you select another line.
- Two-Button Hold allows you to place a single call on hold when two or more lines are conferenced together.
- Two-Button Off allows you to disconnect any line by pressing the OFF button followed by the button for the line to be disconnected.
- 6 or 12 lines
- Auto Mix-Minus
- RS-232 control (Enhanced)
- Drop-in console panels
- Expandable system
- Optional screener air control
- Aux I/O control (Enhanced)
- Held audio input for callers on hold

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1 . 8 0 0 . 9 4 5 . 7 7 3 0
1 . 8 0 1 . 9 7 5 . 7 2 0 0

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MULTI-LINE TELEPHONE HYBRID

SPECIFICATIONS

Control Surface Dimensions (W/H/D):
11"/48.3cm x 2.5" (3.75" w/ handset) /
4.45cm (9.5cm w/ handset) x
8.0"/30.5cm

Mainframe Dimensions (W/H/D):
19"/48.3cm x 10-1/4"/26cm x
3.5"/8.9cm

TS612 System Weight:
12.1 lbs./5.5 kg (dry)
19 lbs./8.6 kg (shipping)

Operating Temperature:
32–100 degrees F / 0–38 degrees C

Humidity:
0–80 percent

CONNECTORS

Power:
Control Surface Electrical:
12Vdc
Mainframe Electrical:
85-240Vac 50/60Hz; 30W maximum

RS232:
DB9 female serial port 9600 Baud, no
parity, 8 data bits, 1 stop bit

Record Control: DB9 female; open collec-
tor outputs sink current to ground
when active. 40V, 50mA

Auxiliary:
DB25 female

Phone Lines In:
RJ-21X, 50-pin centronic male

Phone Lines Out:
RJ-21X, 50-pin centronic female

Control Surface:
DB15 female; Send, Caller, Hold, and
Record mix; 3 pin XLRs,
pin 1 ground
pin 2 +phase
pin 1 -phase

TELEPHONE SPECIFICATIONS

Automatic Disconnect:
Disconnects on loop drop or loop
reversal

Hybrid:
Dual transformer coupled with DSP
adaptive cancellation

Key Service Compatibility:
Any key system providing true tip and
ring compatibility to telephone instru-
ments

Tip/Ring Switching:
One DPDT relay

TELEPHONE TRANSMIT
All measurements are referenced to a
+4dBm input and a -15dBm output
level on the telephone line.

Send Distortion:
0.3 percent THD, 270–2800Hz

Send SNR:
62dB

Send Filter:
-1dB points: 270 and 2800Hz, -30dB
points: 100 and 6300Hz

TELEPHONE RECEIVE
All measurements are referenced to a
-15dBm telephone input and a +4dBm
output level.

Receive THD +N:
@ 1kHz 0.08 percent

Receive Distortion:
0.15 percent THD, 270–3300Hz

Receive Filter:
-1dB points: 270 and 3300Hz, -30dB
points: 100 and 6300Hz

AUDIO INTERFACE

MAIN SEND Input:
10kOhm active balanced, XLR bridging
input +4dBm nominal with clipping
threshold of +20dBm. Level is adjustable
via front access panel trim pot.

HOLD Input:
10kOhm active balanced, XLR bridging
input +4dBm nominal with clipping
threshold of +20dBm. Level is
adjustable via front access panel trim
pot.

CALLER Output:
Active balanced, 50ohm nominal out-
put impedance. Nominal output level
+4dBm, +20dBm clip level. Level is
adjustable via front access panel trim
pot.

RECORD-MIX Output:
50ohm active balanced output imped-
ance; +4dBm nominal, clip level
+20dBm fixed output level.

Accessories (provided):
Power Transformer
25-foot interconnect cable
4 XLR connectors
Rack screws
Installation and Operations Manual
Quick Reference Card

Gentner

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