



## TS612 Multi-Line Telephone Interface

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.



**The TS612 can operate as a single- or dual-studio telephone system.**

### Features and 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)
- Hold audio input for callers on hold
- Worldwide compliant, including FCC, CSA, CE and CTR21

## Specifications

### Dimensions (LxDxH)

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

Mainframe:  
19" x 10.25" x 3.5"  
48.3 x 26 x 8.9 cm

### TS612 System Weight

12.1 lb/5.5 kg (dry)  
19 lb/8.6 kg (shipping)

### Operating Temperature

32–100° F/0–38° C

### Humidity

0–80 percent

### Power

Control Surface Electrical: 12VDC  
Mainframe Electrical: 85-240VAC  
50/60Hz; 30W maximum

### RS-232

DB9 female serial port 9600 baud, no  
parity, 8 data bits, 1 stop bit

### Record Control

DB9 female; open collector outputs  
sink current to ground when active  
40V, 50mA

### Auxiliary

DB25 female

### Phone Lines In

RJ-21X, 50-pin centronix male

### Phone Lines Out

RJ-21X, 50-pin centronix female

### Control Surface

DB15 female

### Telephone Specifications

#### Auto-disconnect

Disconnects on loop drop or loop  
reversal

#### Hybrid

Transformer coupled with DSP  
adaptive cancellation

#### Key Service Compatibility

Any key system providing true tip and  
ring compatibility to telephone  
instruments

#### Tip/Ring Switching

Solid state relay

#### Telephone Transmit

All measurements are referenced to a  
0dBu input and a -15dBu output on  
the telephone line  
Frequency Response: 250Hz to 3.3kHz,  
± 3dBu  
SNR: <65dBu  
THD: <0.2%

#### Telephone Receive

All measurements are referenced to a  
-15dBu telephone input and a 0dBu  
output  
Frequency Response: 250Hz to 3.3kHz,  
± 1dBu  
SNR: <63dBu  
THD: <0.2%

### Audio Interface

Send, Caller, Hold, and Record mix  
3 pin XLRs:  
pin 1 ground  
pin 2 +phase  
pin 3 -phase

#### Main Send Input

10k $\Omega$  active balanced, +4dBm nominal  
with clipping threshold of +20dBm  
Level is adjustable via front access panel  
trim pot

#### Hold Input

10k $\Omega$  active balanced, +4dBm nominal  
with clipping threshold of +20dBm  
Level is adjustable via front access panel  
trim pot

#### Caller Output

Active balanced, 50 $\Omega$  output impedance;  
+4dBm nominal output level,  
+20dBm clip level  
Level is adjustable via front access panel  
trim pot

#### Record-Mix Output

Active balanced 50 $\Omega$  output impedance;  
+4dBm nominal, +20dBm clip level,  
fixed output level

#### Accessories (provided)

Power Transformer  
25-foot interconnect cable  
4 XLR connectors  
Rack screws  
Installation and Operations Manual  
Quick Reference Card