



**KP-32**  
32-Position Keypanel



**KP-32/16**  
16-Position Keypanel

## KP Keypanels

The RTS Model KP-32 keypanel fits in a standard 19" rack and is two rack spaces high. It has 32 lever keys: 30 keys are for intercom talk/listen assignment; one key is for call waiting response; and one key is for headset/microphone/program selection and volume setup. The KP-32 combines all of the programmable features of the KP-9X Series keypanels and the KP-12 keypanel. It adds significant new features such as digital signal processing and binaural headset operation with left/right assignment of audio signals. The KP-32 also introduces large, super-bright, long-life fluorescent displays with adjustable brightness control, making it suitable for all types of ambient lighting from direct sunlight to darkness.

### Features

**Super-bright, fluorescent displays:** Provide much better visibility and usable life than LCD displays. A display saver mode with programmable scrolling message extends display life and conserves power during periods of inactivity.

**32 lever keys, with 30 keys available for full talk/listen configuration:** Doubles the number of channels over the KP-9X series keypanels. Keys support both latching (hands-free) and momentary (push-to-talk) operation.

**Enhanced programming keypad:** Provides the complete KP-9X keypad sequences, plus new keypad sequences, plus an extensive scrollable menu system. Menus include helpful prompts to walk the user through setup.

**Only 90 mm deep behind the front panel (approximately 130 mm with connectors):** Perfect for consoles, OB vans, etc.

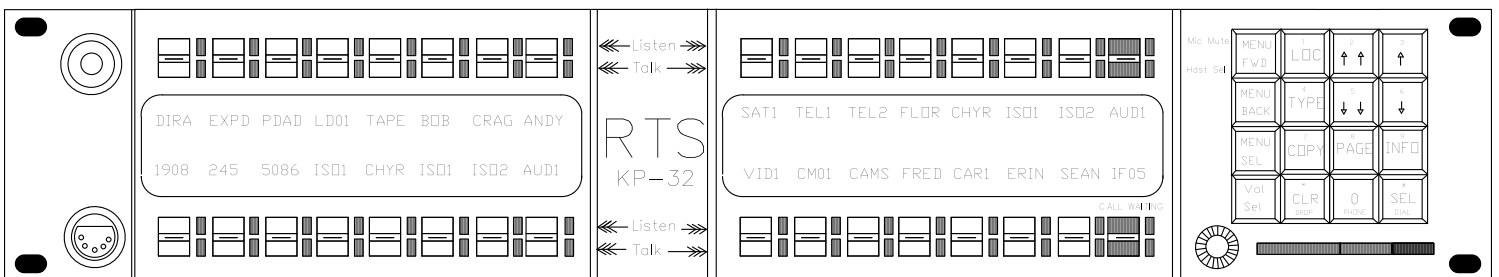
**Digital Signal Processing (DSP):** Improves microphone voice activation and limiting. Adds new mixing, metering, and filtering capabilities.

**Binaural (5-pin) Headset Connector:** Works with the DSP mixing feature. Lets you independently assign intercom, microphone, and program audio to left or right headphone.

**Note:** monaural (4-pin) connector available as an option. For monaural operation, the mixer lets you select which items are monitored in the headphones.

**Easy upgrades:** Firmware updates can be received via the internet, for example, and then downloaded to the KP-32 via the intercom connection. Ready for future communication enhancements, including coax, fiber, and ISDN. (For further information, search for keyword "firmware" in AZedit help.)

### Line Drawing



# KP-32 Specifications

## KP-32 Specifications

### Microphone Preamplifier

Electret Mic Input Level @ 1 kHz:  
-42 dB, 150

Dynamic Mic Input Level @ 1 kHz:  
-50 dBm, 150

Output Level (to matrix): +8 dBu, ±  
0.2 dBu

Max Voltage Gain, Mic to Line: 70  
dB, ± 2 dB

Frequency Response: 100 Hz to 10  
kHz, ± 2 dB

Limiter: 8 dB above nominal

### Tone Generator

Output Level (to matrix): +8 dBu ±  
2 dBu

Output Frequency: 500 Hz

### Headphone Amplifier

Maximum Voltage Gain: 200 dB

Frequency Response: 100 Hz to 10  
kHz, ± 2 dB

Headphone Impedance: 8 to 600

Output Power: 1 W into 50

Output Voltage Level: 8 volts peak-  
to-peak (max.)

Sidetone Range: 25 dB

### Speaker Amplifier & Speaker

Frequency Response: 100 Hz to 10  
kHz, ± 2 dB

Output Power (per amplifier): 4  
watts into 4

Output Voltage Level: 12 volts peak-  
to-peak (max.)

Volume Control Range: 30 dB

Speaker Rating: 4 watts max

### Intercom Input/Output

Input: Nominal: +8 dBu. Peak: ± 20  
dBu max.

Output: +8 dBu, ± 2 dBu nominal

### External Line Input: (Program Input)

Input Level: +8 dBu nominal

### General

AC Supply: External, switching type,  
100-240 VAC, 50/60 Hz with locking  
DIN connector for attachment to the  
keypanel and universal IEC con-  
nector for connection to various AC  
mains cords

### Environmental

Storage: -40°C to +60°C

Operating: -10°C to +41°C

### Dimensions

19" (482.6 mm) W x 3.50" (76.2  
mm) H x 3.30" (90 mm) D

### Weight

6.3 lbs (2.85 kg)

### Connectors (Other Connector Op- tions Available)

#### Panel Microphone Connector

Type: 3-circuit, ¼" phone jack w/  
threaded metal bushing, compat-  
ible w/ RTS MCP5/6

#### Pin-out

Tip: +Audio and DC bias

Ring: Common

Sleeve: Chassis ground

#### Headset Connector

Type: XLR-5 female

#### Pin-out

Pin 1: Mic low; Pin 2: Mic high;

Pin 3: Common; Pin 4: Head-

phone left high; Pin 5: Head-

phone right high

#### Power Input Connector

Type: 5-pin locking DIN

#### Pin-out

Pin1: Common; Pin2: Common;

Pin3: +5VDC, 1.50A Max.; Pin4:

-15VDC, 0.150A Max.; Pin5:

+15VDC, 0.5A Max.

#### Intercom Connectors: Parallel-wired

DB9S and RJ-12 Connectors

Type: DB9S

#### Pin-out

Pin 1: Data +; Pin 2: Data -; Pin

3: Audio in (from matrix) shield;

Pin 4: Audio out (to matrix) +;

Pin 5: Audio out (to matrix) -; Pin

6: Data shield; Pin 7: Audio in

(from matrix) -; Pin 8: Audio in

(from matrix) +; Pin 9: Audio out

(to matrix) shield

Type: RJ-12

#### Pin-out

Pin 1: Data -; Pin 2: Audio in

(from matrix) +; Pin 3: Audio out

(to matrix) +; Pin 4: Audio out (to

matrix) -; Pin 5: Audio in (from

matrix) -; Pin 6: Data +

#### Expansion Connector

Type: RJ-45

#### LCP Connector

Type: RJ-45

### KP-32-RC Specifications

#### EXT MIC IN External balanced dynamic-mic connector

Type: 3-pin Female XLR Audio Con-  
nector

Pin 1: Shield (circuit common); Pin

2: Mic input +; Pin 3: Mic input -

#### EXT LINE IN Balanced Program Audio Input

Type: 3-pin Female XLR Audio Con-  
nector

Pin 1: Shield (circuit common);

Pin 2: Audio input -; Pin 3: Audio

input +

#### MIC PRE OUT Unswitched, Bal- anced Microphone Output

Type: 3-pin Female XLR Audio Con-  
nector

Pin 1: Shield (circuit common);

Pin 2: Audio output -; Pin 3: Audio

output +

#### HEADSET External Headset Con- nector

Type: 9-Pin Male D-sub

Pin 1: External balanced dynamic

mic input -; Pin 2: External bal-

anced dynamic mic input shield

(common); Pin 3: Headset bal-

anced dynamic mic input +; Pin

4: Headset balanced dynamic

mic input -; Pin 5: Headphone +;

Pin 6: External balanced dynamic

mic input +; Pin 7: Electret mic

audio input + and +5VDC bias;

Pin 8: Electret mic common; Pin 9:

Headphone -

#### SPKR External Speaker Output (8 min, 2 watts max)

Type: 3-Conductor, ¼ inch phone  
jack

Tip: Speaker +

Ring: Speaker -

Sleeve: No connection

### Ordering Information

**KP-32;** 32-position keypanel; Catalog Number:  
90007656XXX32

**KP-32/16;** 16-position keypanel; Catalog Number:  
90007656XXX16

**KP-32/RC;** Rear connector kit for KP-32, KP-632 &  
KP-832; Catalog Number: 90207680000

**KP-32 power supply mounting kit;** Catalog Number:  
90027656000

This specifications information is preliminary and is subject to change without notification.

Brand names mentioned are the property of their respective companies.

### Contact Information

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