

DESCRIPTION

The RTS™ Model KP-32 Keypanel is two rack spaces high and has 32 lever keys: 30 keys for intercom talk/listen assignment; 1 key for call waiting respond/clear; and 1 key for headset/microphone switching. The KP-32 combines all of the programmable features of the KP9X Series Keypanels and the KP-12 Keypanel. Plus, 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 flourescent displays with adjustable brightness control, making it suitable for all types of ambient lighting from direct sunlight to darkness.

FEATURES

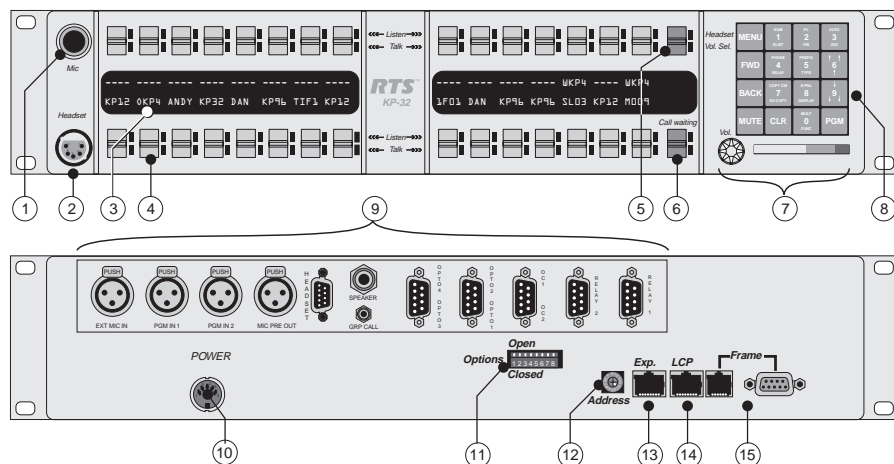
- Super-bright, flourescent displays. Provide much better visibility and useable life than LCD displays. A display saver mode with programmable scrolling message extends display life and conserves power during periods of inactivity.
- 32 lever keys, with 30 keys available for full Talk/Listen configuration. Doubles the number of channels over the KP9X series keypanels. Keys support both latching (hands-free) and momentary (push-to-talk) operation.
- Enhanced programming keypad. Provides the complete KP9X keypad command subset, plus new keypad commands and an extensive scrollable menu system. Menus include helpful prompts to walk the user through setup.
- Only 90 mm deep behind the front panel (approx 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, mic, 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.
- Upgradeable. 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.

OPTIONS

- Connector Module: Factory install or easy add-on. Provides connectors for two line-level audio inputs (program 1 and 2), an unswitched mic preamp output, an external headset, an external speaker, and a group call foot switch input (for remote switch activation of all "on" keys). Also includes a General Purpose Interface (GPI), with four opto-isolated inputs, two open-collector outputs, and two SPDT relays. Inputs can activate single keys, groups of keys, or change setup pages. Outputs can activate external devices from keypanel keys or from GPI inputs.
- EKP-16 and EKP-32 Expansion Keypanels. Add 16 or 32 keys for a total of up to 64 keys.
- LCP-32 Level Control Panels. Provide easy adjustment of point-to-point and party line listen levels for individual intercom keys. One LCP-32 adjusts the top row of keys, and one adjusts the bottom row. LCP-32's are 1 RU high.

KP-32 Keypad / Menu Features

- *Talk/listen key assignment:* matrix, point-to-point (including phone), party line, IFB, ISO, special list, relay(GPIO), level 2 talk, auto functions, UPL resources.
- *Key options:* solo keys (activating a key turns all other keys off), chime tone for incoming call, key groups (simultaneous activation of multiple selected keys), 10-number autodial storage.
- *Phone keys (requires optional Telephone Interface):* support autodial, redial, manual dial.
- *Information display:* firmware version, key groups, keypanel ID, matrix name, level 2 key assignments, listen key assignments, key types (point-to-point key, party line key, etc.), channels currently on, GPI usage, setup page usage.
- *GPI configuration:* assign inputs to activate keys, key groups, change setup pages; assign outputs to activate external devices from keypanel keys.
- *Gain adjustment:* point-to-point listen gains, party line gains, program input gains.
- *DSP functions:* bar-graph metering of a selected audio source, audio source mixing to headphones / speaker / intercom channel, band pass / band reject filtering, mic compression and mic noise gating.
- *Miscellaneous:* display brightness, adjustable sidetone, mute level, tone generator.



1. Gooseneck microphone connector.
2. Binaural, dynamic-mic headset connector. Supports left/right headphone assignment of mic, intercom, and program ½ audio.
3. Super-bright, flourescent, 4-character alphanumeric display for each key.
4. Intercom/phone keys with separate talk and listen status indicators. Keys can be assigned for all types of talk/listen activation.
5. Microphone on/off (toggle up) and Headset on/off (toggle down).
6. Call waiting key, with talk (down) and clear (up) positions.
7. Master volume control and bar-graph level display. The display can also be set to meter intercom audio, or mic audio, or program ½ audio when not adjusting volume.
8. Programming keypad and scroll menu access. (Speaker behind keypad.)
9. Optional connector module.
10. Power supply connector (locking DIN type).
11. Option switches.
12. Rotary keypad address selector.
13. Expansion connector for daisy-chain connection of LCP-32 Level Control Panels and EKP-16/32 Expansion Panels.
14. Parallel-wired DB9 and RJ12 connectors for connection to the intercom system.

Model KP-32 Specifications

Microphone Preamplifier

Audio Input Level (at 1 kHz):

Electret Mic:	-42 dB, 5 kohm
Dynamic Mic:	-60 dBm, 150 ohms

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

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

Frequency Response: 100 Hz to 8000 Hz, ± 3 dB

Test Oscillator:

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

Output Frequency: 400 Hz

Headphone Amplifier:

Maximum Voltage Gain: 30 dB

Frequency Response: 100 Hz to 8000 Hz, ± 3 dB

Headphone Impedance: 50 to 600 ohms

Output Power: 150 mW into 50 ohms

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

Mute: Full: 70 dB min.
Partial: 0 to 30 dB

Sidetone Range: 30 dB

Speaker Amplifier and Speaker

Frequency Response: 100 Hz to 8000 Hz, ± 3 dB

Output Power (per amplifier): 5 watts into 4 ohms

Output Voltage Level: 16 volts peak-to-peak (max.)

Volume Control Range: 70 dB

Mute: Full: 70 dB min.
Partial: 6 dB, 0 to 30 dB adjustable

Speaker: 2 watts continuous,
4 watts peak

Intercom Line Input/Output

Output: +8 dBu, ± 0.2 dBu nominal

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

External Line Input: +8 dBu nominal

General

AC Supply: External, switching type, 90-264 VAC, 50/60 Hz with locking DIN connector for attachment to the keypad and universal IEC connector for connection to various AC mains cords

Environmental:

Storage: -40°C to +60°C

Operating: -10°C to +41°C

Dimensions: 19" wide x 2RU x 3.5" (90 mm) deep

Standard Connectors (Other connector options available)

Panel Microphone: 3-circuit, 1/4" phone jack w/threaded metal bushing, compatible w/ RTS MCP5/6

Headset: XLR5 female standard; XLR4 female optional

Power Input: 5-pin locking DIN

Intercom: Parallel-wired DE9S and RJ12 Connectors

Expansion: RJ45

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