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.)
### KP-32 Specifications

**Microphone Preamplifier**
- Electret Mic Input Level @ 1 kHz: -42 dB, ± 0.2 dBu
- Dynamic Mic Input Level @ 1 kHz: -50 dBm, ± 2 dB
- 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

**Headphone Amplifier**
- Output Level (to matrix): +8 dBu ± 2 dBu
- Headphone Impedance: 8 to 600 ohms
- Output Power: 1 W into 50 ohms
- 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 8 ohms
- 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
- Output: +8 dBu, ± 2 dBu nominal

**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 Options Available)**
- **Panel Microphone Connector**
  - Type: 3-circuit, ¼" phone jack w/ threaded metal bushing, compatible 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: Headphone left high; Pin 5: Headphone right high

- **Power Input Connector**
  - Type: 5-pin locking DIN
  - Pin-out:
    - Pin 1: Common; Pin 2: Common; Pin 3: +5VDC, 1.50A Max.; Pin 4: -15VDC, 0.150A Max.; Pin 5: +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) +; Pin 10: Audio out (to matrix) -

- **Type: RJ-12**
  - 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) +; Pin 10: Audio out (to matrix) -

**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.