

Installed directly into the KP-32 and KP-812 keypanels, the RVON-1 provides voice over IP (Internet Protocol) communications for the RTSTM ADAM intercom family. The RVON-1 delivers an integrated solution for connecting custom keypanels to the Intercom matrix over standard IP networks.

The RVON-1 is compatible with any RTSTM Matrix Intercom system equipped with a suitable RVON interface (RVON-8 or RVON I/O). In conjunction with any new or existing KP-32 or KP-812 keypanel, the RVON-1 brings a new level of enterprise-wide and remote access functionality to your RTSTM Matrix Intercom.

The RVON-1 card is configurable through the keypanel service menu and Telex's AZedit configuration software. It is also fully compatible with internationally recognized standards and supports the following protocols: G.711, G.729 AB, and G723 (2 speeds).

The RVON-1 reaffirms RTS' history of providing support for the latest technology in a fully supported backward compatible manner to all its RTSTM products.

## FEATURES:

### INSTALLATION:

The RVON-1 provides a single RJ-45 Ethernet connection for use with a 10 BASE-T or 100 BASE-TX network.

### 1 CHANNEL OF AUDIO IN AND OUT:

The RVON-1 card supports one channel in and out and has configurable network and bandwidth parameters that can be tailored to individual network functions.

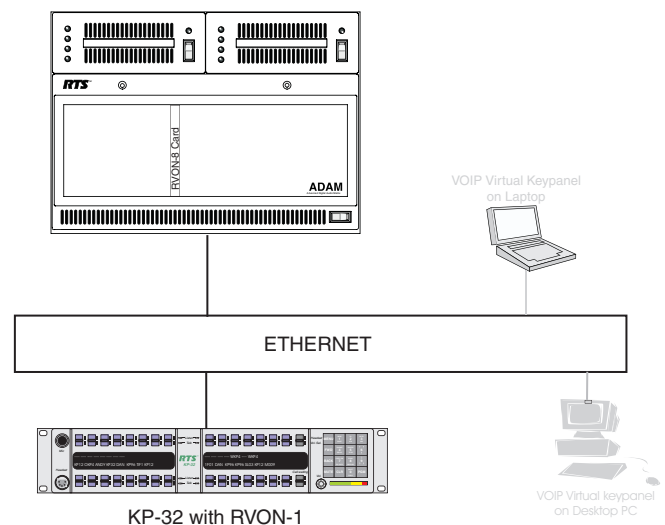
### ETHERNET COMPATIBLE:

The RVON-1 card uses standard Ethernet protocols and is compatible with 10 BASE-T and 100 BASE-TX Ethernet compliant devices and networks.

### AZEDIT CONFIGURATIONS:

Users have the ability to adjust the audio parameters of the RVON-1 channel to optimize the available bandwidth on the network.

## SYSTEM DIAGRAM:



## SPECIFICATIONS:

Digital Compression	Bit Rate	Coding Delay	Playout Delay	Bandwidth
G.711	64k	125 $\mu$ s	20 - 60 ms 1	60-224 kbps
G.729AB	8k	10 ms	20 -120 ms	32-112 kbps
G.723	5.3k/6.3k	30 ms	60 - 120 ms	29-45 kbps

\*Data Rate Depends on Codec Selection

Note: The Playout Delay and Bandwidth depend on the configured amount of audio per packet.  
The bandwidth values are for bi-directional audio without VAD (Voice Activity Detection) enabled.

## CONNECTIONS:

- RJ-45 Ethernet
- 14-Pin KP Compatible Expansion Connector
  - Pin 1 ..... 5 Volt Analog
  - Pin 2 ..... -12 Volt
  - Pin 3 ..... +12 Volt
  - Pin 4 ..... 5 Volt Digital
  - Pin 5 ..... Analog GND
  - Pin 6 ..... Digital GND
  - Pin 7 ..... To Matrix Audio L
  - Pin 8 ..... NC
  - Pin 9 ..... From Matrix Audio L
  - Pin 10 ..... RS485 L
  - Pin 11 ..... From Matrix Audio H
  - Pin 12 ..... NC
  - Pin 13 ..... To Matrix Audio H
  - Pin 14 ..... RS485 H

Power ..... Powered internally from keypanel motherboard  
Physical ..... 2.5" x 5.75"

## CONTACT INFORMATION:

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