Installed directly into KP-32 or KP-812 keypanels, the RVON-1 provides VoIP (Voice over Internet Protocol) communications for the RTS ADAM intercom family. VoIP means sending voice information in digital form using discrete packets rather than the traditional hardwire connection. The RVON-1 delivers an integrated solution for connecting keypanels to the intercom matrix over standard IP networks.

The RVON-1 is compatible with any RTS Matrix Intercom system equipped with a suitable RVON interface. 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 RTS Matrix Intercom.

The RVON-1 card is configurable through the keypanel service menu and RTS’ AZedit configuration software. It is fully compatible with internationally recognized standards and supports the following protocols: G.711, G.729 A, and G.723 (2-Bit rates).

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

Features

- The RVON-1 provides a single RJ-45 Ethernet connection for use with a 10 BASE-T or 100 BASE-TX network.
- The RVON-1 card supports one (1) channel in and out and has configurable network and bandwidth parameters that can be tailored to individual network functions.
- 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.
- Swappable between Ethernet and AIO connection, when connected to an Ethernet LAN, audio comes from the RVON 1 card; and, when an Ethernet link is not present, the audio comes from the AIO connection.
Specifications

Connections
RJ-45 Ethernet via backcard
14-pin KP Compatible Expansion Connector

Pin-outs
Pin 1: 5 Volt Analog       Pin 8: NC
Pin 2: -12 Volt           Pin 9: From Matrix Audio L (-)
Pin 3: +12 Volt           Pin 10: RS-485L
Pin 4: 5 Volt Digital     Pin 11: From Matrix Audio H (+)
Pin 5: Analog GND         Pin 12: NC
Pin 6: Digital GND        Pin 13: To Matrix Audio H (+)
Pin 7: To Matrix Audio L (-) Pin 14: RS-485H

Power
Powered internally from keypanel motherboard

Physical
2.5” W x 5.75” L (63.5mm W X 146.05mm L)

<table>
<thead>
<tr>
<th>Digital</th>
<th>Audio Bit Rate</th>
<th>Coding Delay</th>
<th>Playout Delay</th>
<th>IP Bandwidth</th>
</tr>
</thead>
<tbody>
<tr>
<td>G.711</td>
<td>64k</td>
<td>125μs</td>
<td>20–60ms</td>
<td>160–224kbps</td>
</tr>
<tr>
<td>G.729 A</td>
<td>8k</td>
<td>10ms</td>
<td>20–120ms</td>
<td>32–112kbps</td>
</tr>
<tr>
<td>G.723</td>
<td>5.3k/6.3k</td>
<td>30ms</td>
<td>60–120ms</td>
<td>29–45kbps</td>
</tr>
</tbody>
</table>

System Example

Order Information
RVON-1-W/O-REAR • RVON-1 • Single port VoIP via Ethernet keypanel interface option card kit without rear panel for KP32 series built after 1-1-2004.
RVON-1-W/REAR • RVON-1RP • Single port VoIP via Ethernet keypanel interface option card kit with rear panel for KP32 series built prior to 1-1-2004.
RVON-1-KIT-KP-632 • KP-632 • Rear kit for KP-632 w/o rear panel.
90027757004 • KP-632 • Rear kit for KP-632 w/rear panel.

The specification information is preliminary and is subject to change without notification. Brand names mentioned are the property of their respective companies.