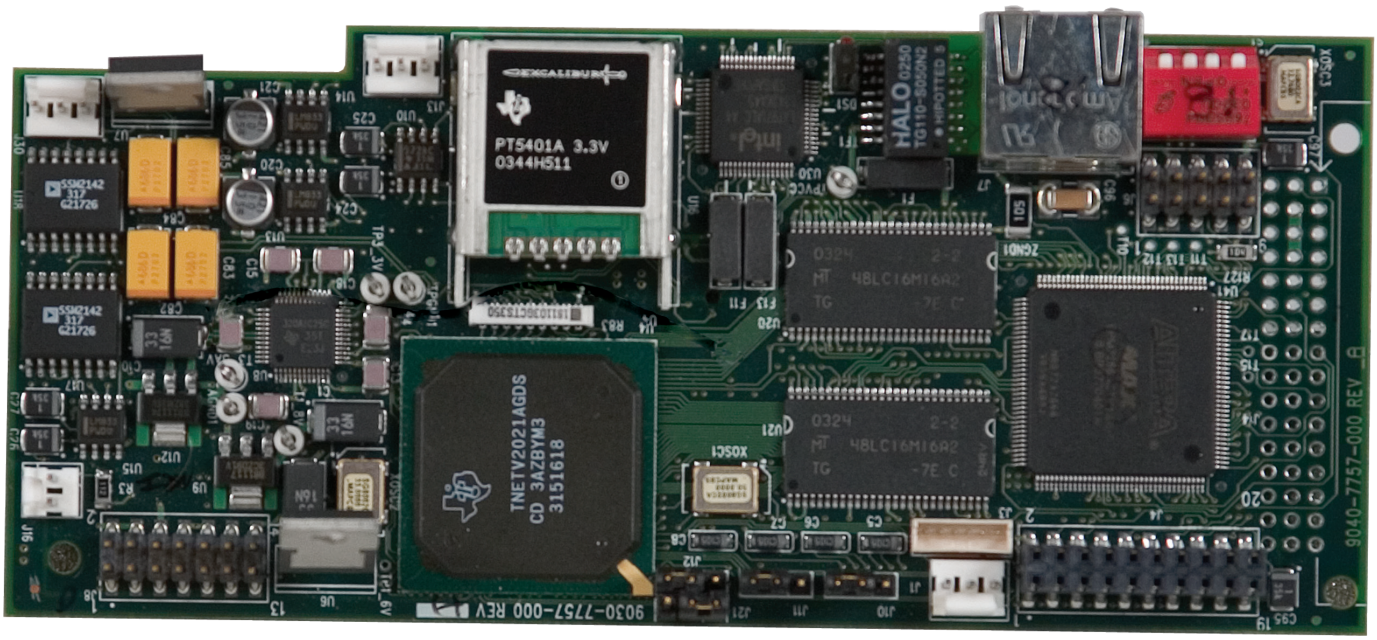
Technical Data Sheet

Innovating the Future of Global Communications

RVON-1

Single-Port VoIP via Ethernet Keypanel Interface Option Card Kit



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

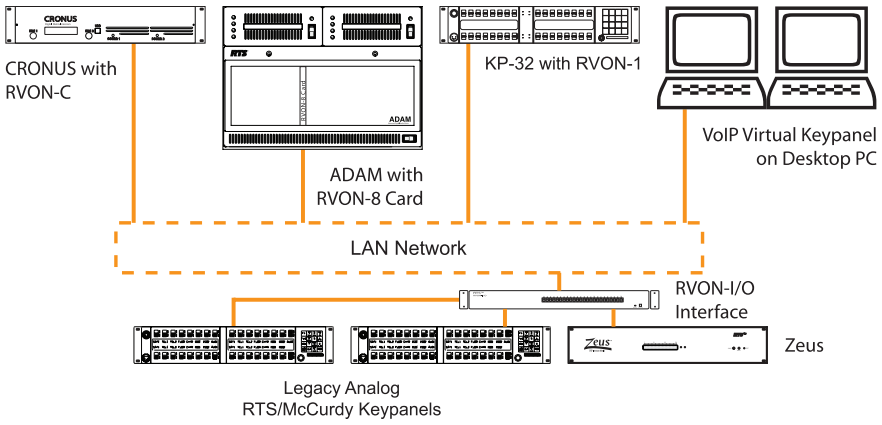
Physical

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

Digital

Compression	Audio Bit Rate	Coding Delay	Playout Delay	IP Bandwidth
G.711	64k	125µs	20–60ms	160–224kbps
G.729 A	8k	10ms	20–120ms	32–112kbps
G.723	5.3k/6.3k	30ms	60–120ms	29–45kbps

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.

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