RNA 200 Series

Rackmount Real-Time KVMA-over-IP Network Adaptor

Rugged Displays and Computing: Networked Visualisation

Deploy real-time, pixel-perfect video and multi-user desktop distribution with open-standard networks and streaming.

Rugged RNA Adaptors encode and decode desktop content (video, audio, USB) to and from standard IP streams, enabling collaboration and recording in multi-user environments.

Real-Time KVMA Switching over Standard Networks

The RNA Series of Real-Time Network Adaptors provides desktop distribution (DVI-D, audio, USB-HID) via standard IP streams and 10G network switches. These devices enable real-time pixel-perfect remote desktops for multiple users accessing multiple computers.

Designed for Defence Critical Applications

RNA devices are ruggedized and MIL-STD qualified. They also feature advanced failover configurations and builtin monitoring mechanisms to ensure continuous system availability.

Flexible Configuration

The RNA adaptors are highly flexible and can be configured as a decoder, encoder, or both. They support simultaneous streaming of uncompressed and compressed data which enables remote collaboration and screen recording.

Multi-Desktops for Display Consolidation

The RNA decoders allow real-time compositing of multiple high-resolution sources per output display, supporting concurrent control of multiple remote computers from a single HMI. Compositing can also be used for displaying multiple sources on overview displays.

Product Specifications

Streaming Video Standards	IETF RFC4175 (uncompressed) IETF RFC3984 (H.264)
Video	Up to 4x SL DVI-D at 1920x1200, 60 Hz Up to 2x DL DVI-D at 2560x1600 or 2048x2048 inputs/outputs in any combination
Input Devices	1x USB type B to host 4x USB type A to HMI devices
Audio	2x Line-in/Line-out 1x Mic-in 1x Headset out
Safe Pass-Through	DVI, Audio, USB
GPIO	RNA-210/211: 2x Discrete Inputs, 2x Discrete Outputs RNA-212/213: 10x Discrete Inputs, 10x Discrete Outputs
Network Connections	2x 10GBase-SR or 1000BASE-T
Dimensions	RNA-210/211: 44 mm x 430 mm x 300 mm RNA-212/213: 44 mm x 430 mm x 257 m
Weight	RNA-211/213: +/- 2.7 kg RNA-210/212: +/- 3.7 kg
System Availability	Failover modes Built-in monitoring (I/O's & network faults) MTBF: Naval Sheltered typ. 20,000h @ 25°C
Setup/Control	Control REST API via https Configuration via web service
Power	RNA-211/213: 40 W (typical) RNA-210/212: 80 W (typical)
ENVIRONMENTAL CONDITIONS	
Vibration Operational	MIL-STD-167-1 Sinusoidal (operating and non-operating) 5-50 Hz: 1.27 mmp (0.05" p) 20-2000 Hz: 2 g
Shock	MIL-STD-810G 30 g/12.5 ms
Operating Temperature	MIL-STD-810G Operating: 0°C to + 50°C Storage: - 40°C to + 70°C
Humidity	MIL-STD-810G 95% @ 40°C non-condensing
Drip Proof	MIL-STD-810G Up to 45°
Altitude Low Pressure	MIL-STD-810G operating up to 25,000 ft non-operating up to 40,000 ft

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Partnered Supplier

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