

Arqa

Video distribution with KVM control



ARQA

THE SINGLE, SECURE CONNECTIVITY SOLUTION

Aiding demanding command and control environments and other AV applications, Arqa gives operators access to multiple remote sources with visually lossless video quality and zero perceived latency. Suitable for those who need to monitor, control and share access to multiple remote servers, Arqa supports up to 2000 endpoints contained within a single 1Gb switched video distribution network.

Combined with Datapath's award winning VSN video wall controllers, Arqa provides systems integrators with a full video distribution, control and display solution.

FEATURES

- Full KVM control with up to 2,000 endpoints
- OneControl Technology - Allows control of multiple PC's across a single workstation with a single keyboard and mouse
- Push support - Share sources with other operators or video walls on the Arqa network
- Pull support - Access and control any source on the Arqa network
- Multi-head support - Sources with multiple screens can be treated 'as one'
- Hardware KVM with intra-frame compression algorithm:
 - Visually lossless image quality, irrespective of content
 - Significant latency advantage over other methods, e.g. h264, RDP, VNC, PCoIP
- Copper and Fiber versions (can be mixed)
- Simple network switch requirements
- Plug and Play installation over IP
- Video loop-through port for local extension into IP network
- Mass storage mode disable for securing against endpoint intrusion

Engineering the **world's best** visual solutions

DATAPATH
EXCELLENCE BY DESIGN

Arqa KVM over IP transmitters and receivers

PUSH AND PULL

Arqa's Push and Pull functionality is ideal for users who require the ability to monitor, control and share multiple sources. With minimal effort each user can choose from a pool of remote sources and pull them onto their individual workstations. Once work is finished with one source, another can be quickly switched into its place, increasing working efficiency as well as facilitating a level of system redundancy.

Users can monitor any source of interest that might be under the control of another user without distracting their workflow. Users granted with sufficient permissions can choose to push their source onto other workstations or onto a central video wall via a Datapath video wall controller.

ONECONTROL

With OneControl, switching between multiple sources can be done with ease. Users can simply drag their cursor across their monitor boundaries and seamlessly glide through multiple sources of interest with zero latency, just as if all sources were connected locally. Up to 16 HD screens can be connected into a single virtual workstation using OneControl to switch between sources and applications.

NETWORK MANAGER

The Arqa Network Manager is a Windows-based application for management of the Arqa network. Built with ease of use in mind, the simple UI provides fast and convenient control of all Arqa devices. It handles network device discovery, device configuration, video routing, sharing configurations and administrator settings.

Network Manager also includes User Rights Management which restricts users to accessing only specified endpoints within the system, all under the control of the system administrator. Once enabled, users must log on to the workstation before they can access their sources or any screens.

COMPATIBILITY

Arqa can be used either in point-to-point mode or switched over a network. When used in a switched network, a suitable network switch with IGMP fast leave support is required for sharing support (see separate list of recommended switches in the Arqa User Guide). For optical extenders, OM2 or OM4 multi-mode fiber optic cables must be used (not supplied). For best results, Datapath strongly recommend using the two supplied 850nm multi-mode SFP transceivers for both the extender and switch end connections.

AVAILABLE LANGUAGES

Arqa Network Manager is currently available in English, German, Italian, Russian and Spanish.

MODELS AVAILABLE FOR PURCHASE

Extenders

Order Code: ARQARX1C

Arqa KVM receiver for copper cable

Order Code: ARQARX1F

Arqa KVM receiver for fiber optic cable

Order Code: ARQATX1C

Arqa KVM transmitter for copper cable

Order Code: ARQATX1F

Arqa KVM transmitter for fiber optic cable

Rack Mount Kits

Order Code: RMKARQAEU

1U Rack mount kit - houses up to 4 extenders with dual redundant PSU (EU Version)

Order Code: RMKARQAUK

1U Rack mount kit - houses up to 4 extenders with dual redundant PSU (UK Version)

Order Code: RMKARQAUUS

1U Rack mount kit - houses up to 4 extenders with dual redundant PSU (US Version)

SFP Modules

Order Code: SFPFARQA

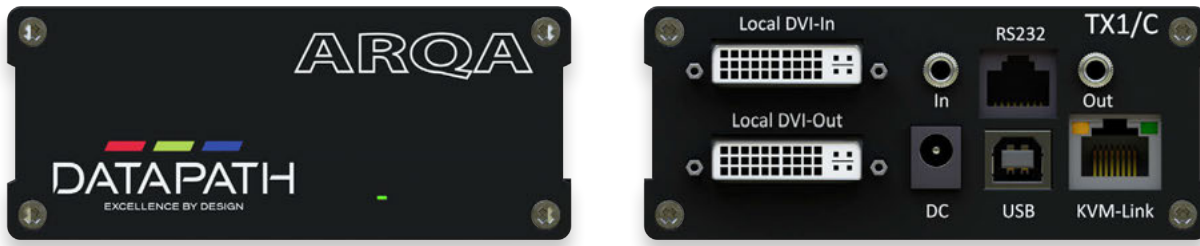
Extra SFP modules for optical extenders (Note: Two already included with each extender purchased)

Software

Order Code: ARQANM

Network Manager application software

Arqa KVM over IP transmitters and receivers



SPECIFICATION ARAQ TX1/C

INTERFACES

1x DVI-I in*
1x DVI-I (loop out)
1x USB-B
2x 3.5mm Analog Audio (Line In/out)
1x RS232 via RJ11
1x 1Gb KVM link via RJ45
1x DC power port

VIDEO

Up to 1920 x 1200 @ 60Hz 24bit
Analog video modes via VGA adaptor

AUDIO

Analog 16bit, 44kHz, 2ch

USB

USB 2.0 transparent Max. 480 Mbit/s Mass storage devices supported when enabled by sys admin

RS232

Transparent max. 230.400 bps

KVM-LINK DATA RATE

1Gbps

MAX DISTANCE

150m

ENCLOSURE WxHxD

108 x 40 x 98mm

WEIGHT

280g

MOUNTING

Built in surface mount
Rack mount kit available

POWER

12V DC 1A

CONSUMPTION

8W

REDUNDANT POWER

n/a

OPERATION ENVIRONMENT

0 °C to 45 °C (32 °F to 113 °F)
< 80%, non condensing

STORAGE ENVIRONMENT

-25 °C to 80 °C (-13 °F to 176 °F)
< 80%, non condensing

COOLING

Free air convection

MTBF

82,820 hours

COMPLIANCE

CE, FCC

NETWORK SWITCH REQUIREMENTS

IGMP snooping version 2 or higher
Fast Leave enabled
Gateway bandwidth of 1Gbit per port

WARRANTY

3 year standard, 5 years extended available

*HDMI to DVI cables are included with every unit for straight forward connectivity to either DVI or HDMI sources.

Arqa KVM over IP transmitters and receivers



SPECIFICATION ARQA RX1/C

INTERFACES

1x DVI-I out
4x USB-A
2x 3.5mm Analog Audio (Line In/out)
1x RS232 via RJ11
1x 1Gb KVM link via RJ45
1x DC power port

VIDEO

Up to 1920 x 1200 @ 60Hz 24bit
Analog video modes via VGA adaptor

AUDIO

Analog 16bit, 44kHz, 2ch

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CONSUMPTION

8W without USB devices,
10W Max

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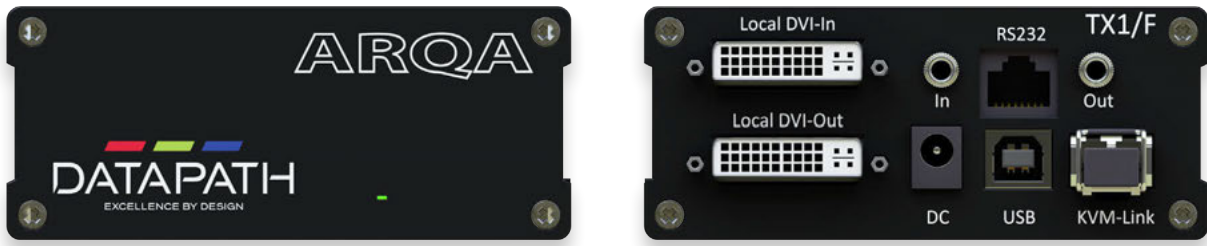
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1x 1Gb KVM link via SFP+
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Analog video modes via VGA adaptor

AUDIO

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USB 2.0 transparent Max. 480 Mbit/s Mass storage devices supported when enabled by sys admin

RS232

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KVM-LINK DATA RATE

1Gbps

KVM Latency

<5ms end-to-end

MAX DISTANCE

500m over OM3

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CONSUMPTION

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All products are shipped with the latest software available, unless stated otherwise. Special requirements may be organised by contacting our Sales team.

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EXCELLENCE BY DESIGN