

# Arqa

KVM over IP transmitters  
and receivers



# ARQA

## UNPARALLELED HARDWARE KVM

Aiding demanding command and control environments and other AV applications, Arqa gives operators access to multiple remote sources without sacrificing video quality or round-trip latency.

Suitable for those who need to monitor, control and share access to multiple remote servers, Datapath's Arqa product range supports up to 2000 endpoints contained within a single 1Gb switched video distribution network. Arqa compliments Datapath's award winning VSN video wall controllers, which are found today in control rooms and command centres all over the world and offers an ideal control solution for systems integrators.

## FEATURES

- KVM matrixing with up to 2,000 endpoints
- One Control Technology - Allows control of multiple PC's across a single workstation with one keyboard and mouse
- Multi-head support - Sources with multiple screens can be treated 'as one'
- Push support - Share current source with other receivers
- Pull support - Access any source direct from the receiver
- Flexible sharing - Remote source viewing or take control
- 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

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**DATAPATH**  
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# 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 from a variety of workstations. 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.

## ONE CONTROL

With built-in One Control, switching between multiple sources can be done with ease. Users can simply drag their cursor to the edge of their monitor 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 One Control to switch between sources and applications.

## ARQA NETWORK MANAGER

Network Manager is a Windows-based application (Windows 7 Service Pack 2, Windows 8 and Windows 10) required for managing Arqa network distributed systems. 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 as well as administrator settings.

Network Manager also offers a User Rights Management facility which restricts users to accessing only endpoints within the system, all under the control of a system administrator. Once enabled, users must log on to a workstation with their account before gaining access to their sources or to 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.

Operating Systems: Arqa Network Manager supports Windows 7 Service Pack 2, Windows 8 and Windows 10.

## 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

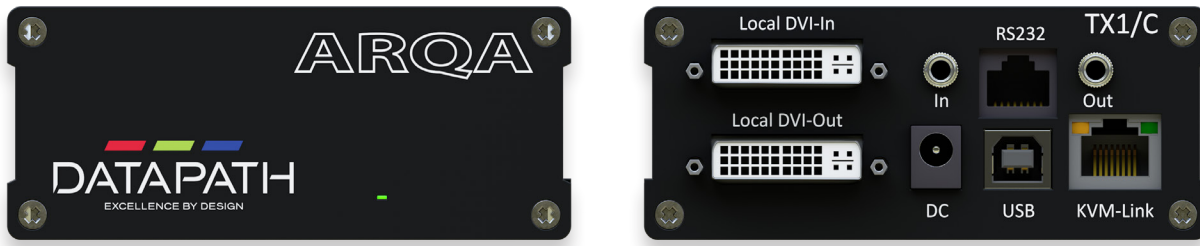
Extra SFP modules for optical extenders (Note: Two already included with each extender purchased)

### 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

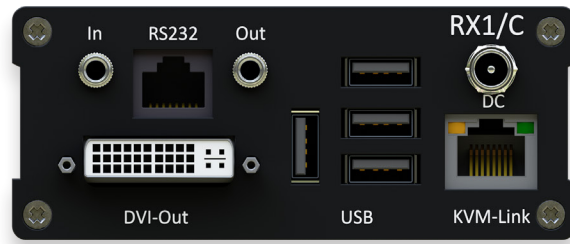
IGMP snooping version 2 or higher  
Fast Leave enabled  
Gateway bandwidth of 1Gbit per port

### 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-D 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

### 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 without USB devices,  
10W Max

### REDUNDANT POWER

n/a

### OPERATION ENVIRONMENT

0 °C to 45 °C (32 °F to 113 °F)  
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### STORAGE ENVIRONMENT

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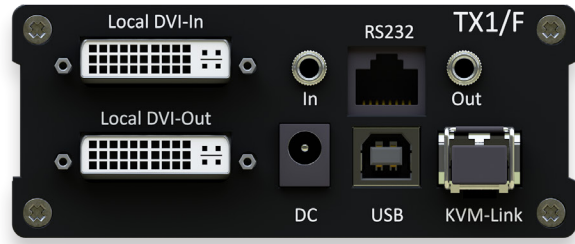
### NETWORK SWITCH REQUIREMENTS

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

### WARRANTY

3 year standard, 5 years extended available

# Arqa KVM over IP transmitters and receivers



## SPECIFICATION ARQA TX1/F

### 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 SFP+  
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

### KVM Latency

<5ms end-to-end

### MAX DISTANCE

500m over OM3

### 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 °C to 176 °F)  
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### COOLING

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### MTBF

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### COMPLIANCE

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### NETWORK SWITCH REQUIREMENTS

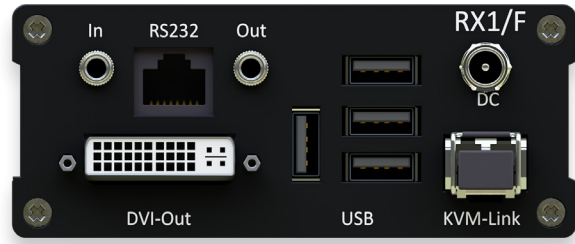
IGMP snooping version 2 or higher  
Fast Leave enabled  
Gateway bandwidth of 1Gbit per port

### 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/F

### INTERFACES

1x DVI-D out  
4x USB-A  
2x 3.5mm Analog Audio (Line In/out)  
1x RS232 via RJ11  
1x 1Gb KVM link via SFP+  
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

### KVM Latency

<5ms end-to-end

### MAX DISTANCE

500m over OM3

### ENCLOSURE WxHxD

108 x 40 x 98mm

### WEIGHT

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### MOUNTING

Built in surface mount  
Rack mount kit available

### POWER

12V DC 1A

### CONSUMPTION

8W without USB devices,  
10W Max

### REDUNDANT POWER

n/a

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### COOLING

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### MTBF

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### COMPLIANCE

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### 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

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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