Arqa

Video distribution with KVM control

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 PCs 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
**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**

**Extendens**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARQARX1C</td>
<td>Arqa KVM receiver for copper cable</td>
</tr>
<tr>
<td>ARQARX1F</td>
<td>Arqa KVM receiver for fiber optic cable</td>
</tr>
<tr>
<td>ARQATX1C</td>
<td>Arqa KVM transmitter for copper cable</td>
</tr>
<tr>
<td>ARQATX1F</td>
<td>Arqa KVM transmitter for fiber optic cable</td>
</tr>
</tbody>
</table>

**Rack Mount Kits**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMKARQAEU</td>
<td>1U Rack mount kit - houses up to 4 extenders with dual redundant PSU (EU Version)</td>
</tr>
<tr>
<td>RMKARQAUK</td>
<td>1U Rack mount kit - houses up to 4 extenders with dual redundant PSU (UK Version)</td>
</tr>
<tr>
<td>RMKARQAUS</td>
<td>1U Rack mount kit - houses up to 4 extenders with dual redundant PSU (US Version)</td>
</tr>
</tbody>
</table>

**SFP Modules**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPFARQA</td>
<td>Extra SFP modules for optical extenders (Note: Two already included with each extender purchased)</td>
</tr>
</tbody>
</table>

**Software**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARQANM</td>
<td>Network Manager application software</td>
</tr>
</tbody>
</table>
Arqa KVM over IP transmitters and receivers

### SPECIFICATION ARQA 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

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*HDMI to DVI cables are included with every unit for straight forward connectivity to either DVI or HDMI sources.*
### SPECIFICATION ARQA RX1/C

<table>
<thead>
<tr>
<th>INTERFACES</th>
<th>KVM-LINK DATA RATE</th>
<th>OPERATION ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1x DVI-I out</td>
<td>1Gbps</td>
<td>0 °C to 45 °C (32 °F to 113 °F)</td>
</tr>
<tr>
<td>4x USB-A</td>
<td></td>
<td>&lt; 80%, non condensing</td>
</tr>
<tr>
<td>2x 3.5mm Analog Audio (Line In/out)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1x RS232 via RJ11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1x 1Gb KVM link via RJ45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1x DC power port</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIDEO</td>
<td>MAX DISTANCE</td>
<td>STORAGE ENVIRONMENT</td>
</tr>
<tr>
<td>Up to 1920 x 1200 @ 60Hz 24bit</td>
<td>150m</td>
<td>-25 °C to 80 °C (-13 °F to 176 °F)</td>
</tr>
<tr>
<td>Analog video modes via VGA adaptor</td>
<td></td>
<td>&lt; 80%, non condensing</td>
</tr>
<tr>
<td>AUDIO</td>
<td>ENCLOSURE WxHxD</td>
<td>COOLING</td>
</tr>
<tr>
<td>Analog 16bit, 44kHz, 2ch</td>
<td>108 x 40 x 98mm</td>
<td>Free air convection</td>
</tr>
<tr>
<td>USB</td>
<td>WEIGHT</td>
<td>MTBF</td>
</tr>
<tr>
<td>USB 2.0 transparent Max. 480 Mbit/s Mass storage devices supported when enabled by sys admin</td>
<td>82,820 hours</td>
<td></td>
</tr>
<tr>
<td>MOUNTING</td>
<td>MOUNTING</td>
<td>COMPLIANCE</td>
</tr>
<tr>
<td>Built in surface mount</td>
<td></td>
<td>CE, FCC</td>
</tr>
<tr>
<td>Rack mount kit available</td>
<td></td>
<td>NETWORK SWITCH REQUIREMENTS</td>
</tr>
<tr>
<td>POWER</td>
<td>CONSUMPTION</td>
<td>IGMP snooping version 2 or higher</td>
</tr>
<tr>
<td>12V DC 1A</td>
<td>8W without USB devices, 10W Max</td>
<td>Fast Leave enabled</td>
</tr>
<tr>
<td>REDUNDANT POWER</td>
<td></td>
<td>Gateway bandwidth of 1Gbit per port</td>
</tr>
<tr>
<td>n/a</td>
<td></td>
<td>WARRANTY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 year standard, 5 years extended available</td>
</tr>
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</table>

| RS232               |                     |                                                                                      |
| Transparent max. 230.400 bps |                     |                                                                                      |

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<tr>
<th>VIDEO</th>
<th>AUDIO</th>
<th>USB</th>
<th>POWER</th>
<th>CONSUMPTION</th>
<th>REDUNDANT POWER</th>
<th>OPERATION ENVIRONMENT</th>
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<td>Analog 16bit, 44kHz, 2ch</td>
<td>USB 2.0 transparent Max. 480 Mbit/s Mass storage devices supported when enabled by sys admin</td>
<td>12V DC 1A</td>
<td>8W without USB devices, 10W Max</td>
<td>n/a</td>
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<td>Free air convection</td>
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<th>COOLING</th>
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<tr>
<td>INTERFACES</td>
<td>KVM-LINK DATA RATE</td>
<td>MAX DISTANCE</td>
<td>ENCLOSURE WxHxD</td>
<td>WEIGHT</td>
<td>MOUNTING</td>
<td>POWER</td>
<td>CONSUMPTION</td>
</tr>
<tr>
<td>1x DVI-I out</td>
<td>1Gbps</td>
<td>150m</td>
<td>108 x 40 x 98mm</td>
<td>280g</td>
<td>Built in surface mount</td>
<td>12V DC 1A</td>
<td>8W without USB devices, 10W Max</td>
</tr>
</tbody>
</table>
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

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

**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)
- < 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
Arqa KVM over IP transmitters and receivers

SPECIFICATION ARQA RX1/F

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 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

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 without USB devices,
- 10W Max

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)
- < 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

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