Arqa

KVM over IP transmitters and receivers

DATAPATH
EXCELLENCE BY DESIGN

VIDELCO Europe GmbH

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

Wir entwickeln die besten visuellen Lösungen weltweit

VIDELCO
Europe GmbH

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 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.

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

SFP Modules

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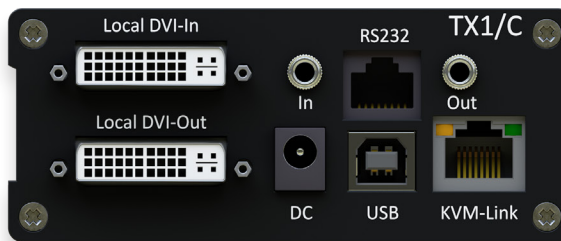Extra SFP modules for optical extenders (Note: Two already included with each extender purchased)

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
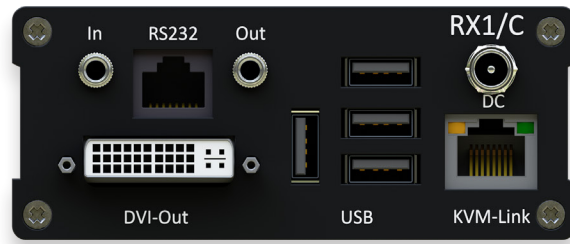
MTBF
82,820 hours

COMPLIANCE
CE, FCC

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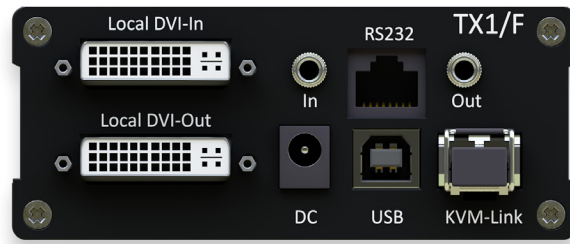IGMP snooping version 2 or higher
Fast Leave enabled
Gateway bandwidth of 1Gbit per port

WARRANTY
3 year standard, 5 years extended available

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

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STORAGE ENVIRONMENT
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COOLING
Free air convection

MTBF
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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

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
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CE, FCC

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Fast Leave enabled
Gateway bandwidth of 1Gbit per port

WARRANTY
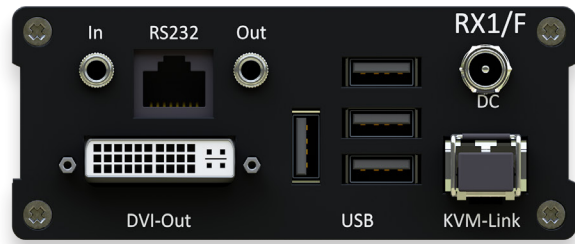3 year standard, 5 years extended available

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

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CONSUMPTION
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CE, FCC

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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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