Thank you for purchasing the Datapath Arqa TX1 or RX1 units. The aim of this document is to quickly guide you through the process of initial setup.

For detailed information, the Arqa and Arqa Network Manager User Guide can be downloaded from [www.datapath.co.uk](http://www.datapath.co.uk)

If any of the items are missing, please contact Datapath for further instructions.

The latest version of the Arqa Network Manager software is available to download from the USB stick included within your pack.

CONTENTS

1 x Arqa TX1 unit, or 1 x Arqa RX1 unit

ARQA TX1 (TRANSMITTER UNIT)

- 1 x wall power supply unit 12V 1A (European or International plug)
- 1 x DVI to HDMI cable 1.8m
- 1 x USB cable 1.8m
- 2 x audio cables 1.8m
- 1 x DVI to HDMI adapter
- 1 x rubber feet (incl 4 pcs)
- 1 x mounting pad (incl 4 pcs)

Fiber version only

- 2 x SFP 1G Multi-mode up to 500m.
  1 x plugged into the device and 1 x in the box for far end connection to a switch
ARQA RX1 (RECEIVER UNIT)

- 1 x wall power supply unit 12V 1A (European or International plug)
- 1 x rubber feet (incl 4 pcs)
- 1 x mounting pad (incl 4 pcs)
- 1 x DVI to HDMI adapter

**Fiber version only**
- 2 x SFP 1G Multi-mode up to 500m. 1 x plugged into the device and 1 x in the box for far end connection to a switch

RACK MOUNT KIT (OPTIONAL)

- 1 x rack shelf
- 2 x mains power cables
- 1 x faceplate
- Redundant Power Supply Unit (RPSU)
- 1 x accessories bag containing faceplate fixing screws
STEP 1 CONNECTING THE ARQA RX1/C AND TX1/C COPPER UNITS

- **PC**
  - DVI in from PC
  - Audio from PC
  - USB to PC

- **TX1/C**
  - DVI out to Monitor (optional)
  - Audio out to Speaker
  - USB Keyboard and Mouse
  - Power Socket 12V 1A

- **RX1/C**
  - DVI out to Monitor
  - Local DVI - Out
  - Audio in from Microphone
  - Power Socket 12V 1A

Network cable CAT5e/6. Up to 150m/492ft
**STEP 1 CONNECTING THE ARQA RX1/F AND TX1/F OPTICAL UNITS**

- **PC**
  - DVI in from PC
  - Audio from PC
  - USB to PC

- **Audio to PC**

- **DVI in from PC**

- **TX1/F**
  - Local DVI - In
  - RS232 In
  - DC
  - USB
  - KVM - Link
  - DVI - Out (optional)

- **Audio in from Microphone**
- **Audio out to Speaker**
- **USB Keyboard and Mouse**

- **DVI out to Monitor (optional)**

- **Power Socket 12V 1A**

- **Network cable Multi-mode Fiber, Up to 500m/1640ft**

- **RX1/F**
  - In
  - RS232
  - Out
  - DC
  - USB
  - KVM - Link
  - DVI - Out

- **Power Socket 12V 1A**
Connect the Arqa RX1 and the TX1 as follows using the connection illustrations as a guide:

- Connect both the Arqa RX1 and the TX1 to the 12V 1A power supply provided.
- Connect the USB cable (provided) to a USB port on the PC and to the USB port on the Arqa TX1.
- Connect a keyboard and mouse to the USB ports on the Arqa RX1.
- Connect the Arqa RX1/C and TX1/C using a CAT5e/6 cable (not supplied).
- Connect the Arqa RX1/F and TX1/F using a fiber cable (not supplied) connected to the SFP modules in each unit.
- Connect the graphics output of your PC to the DVI In port of the Arqa TX1 using the supplied HDMI to DVI video cable.
- Connect the DVI Out port of the Arqa TX1 into a local monitor if required. You can use the supplied DVI/HDMI adapter to reconnect your original HDMI cable back into the HDMI input of your local monitor.
- Connect the Arqa RX1 DVI Out port to the remote monitor using the video cable supplied with your monitor and the DVI/HDMI adapter supplied with your RX1 receiver.
- If using a network switch, connect all endpoints from the units to the switch. Ensure that all connections have a minimum bandwidth of 1 Gbit/sec. For video sharing the network switch must support IGMP snooping.

STEP 2 ATTACHING THE ARQA TX1 UNITS TO THE RMK

Attach the Arqa TX1 to the faceplate by removing the top left and bottom right screws (1). Align the blank screw holes on the faceplate (2), then insert the screws to lock the Arqa TX1 units in place.
**STEP 3 OPERATION**

**Start up a point-to-point connection (without a network switch)**

The start up for a point-to-point connection is the same whether you are using the Copper or Fiber version of the Datapath Arqa.

- Ensure all connections between the PC, Arqa TX1 and the RX1 are sound.
- Turn on the PC and both monitors.
- Both units will start an initialisation process indicated by the red status LED flashing for a few seconds, then turning solid Green.
- Press the Scroll Key on your keyboard five times in quick succession to open the On Screen Display menu then enter ‘P’ to **enable Point-to-Point mode**.
- The monitor will display the desktop of the PC and any open applications.
START UP A NETWORK SWITCH CONNECTION

The start up for a network switch connection is the same if you are using the Copper or Fiber version of the Datapath Arqa.

1. Plug all units into the Network Switch using network cables. A Windows based PC containing the Arqa Network Manager software should also be connected to the network switch. Instructions for installing the Arqa Network Manager can be found in the Arqa Network Manager User Guide.

2. Once installed, run the Arqa Network Manager application on the Arqa Network Manager Server. You will be prompted to login into the default administrator account:
   
   **User:** admin  
   **Password:** admin

3. Open the System tab and click on ‘General Settings’.

4. Select a network interface from the pull down list (1). Enable unit automatic add (2) then click ‘Save’ (3).

5. The Arqa Network Manager will require a restart to enable it to discover all the units.

   ![General Settings](image)

6. The Arqa Network Manager reopens with the Layout tab open in the Grid view. All units will have been discovered if not, check all connections are sound. You can then click on an Arqa TX1 and Arqa RX1 to make a connection.

See the Arqa Network Manager User Guide for more detailed information.
## STEP 4 TROUBLESHOOTING

<table>
<thead>
<tr>
<th>LED</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="LED does not illuminate." /></td>
<td>LED does not illuminate.</td>
<td>No Power.</td>
</tr>
<tr>
<td><img src="image" alt="LED displays Red." /></td>
<td>LED displays Red.</td>
<td>Physical connection</td>
</tr>
<tr>
<td><img src="image" alt="LED Flashing Red" /></td>
<td>LED Flashing Red</td>
<td>No connection between the Arqa TX1 and RX1.</td>
</tr>
<tr>
<td><img src="image" alt="LED displays Orange." /></td>
<td>LED displays Orange.</td>
<td>Image not displayed on monitor.</td>
</tr>
<tr>
<td><img src="image" alt="LED displays Green." /></td>
<td>LED displays Green.</td>
<td>Keyboard not working.</td>
</tr>
<tr>
<td><img src="image" alt="LED displays Green." /></td>
<td>LED displays Green.</td>
<td>No audio.</td>
</tr>
<tr>
<td><img src="image" alt="LED displays Green." /></td>
<td>LED displays Green.</td>
<td>The screen flickers, has an abnormal display.</td>
</tr>
</tbody>
</table>
## LED flashing Green.

<table>
<thead>
<tr>
<th>LED flashing Green.</th>
<th>The Arqa RX1 and TX1 have different firmware installed or the USB is not compatible.</th>
<th>Contact the Datapath Support Team.</th>
</tr>
</thead>
</table>

## LED are lighting differently.

<table>
<thead>
<tr>
<th>LED are lighting differently.</th>
<th>The Arqa RX1 and TX1 may have different firmware installed.</th>
<th>Enter the On Screen Display to confirm the firmware versions. To open the On Screen Display press the ‘Scroll Lock Key’ a minimum of five times in quick succession. The firmware version is displayed below the menu. Should a firmware update not work, contact the Datapath Support Team.</th>
</tr>
</thead>
</table>

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CERTIFICATION

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Datapath Ltd declares that the Arqa KVM units comply with the essential requirements and other relevant provisions of Directives 2014/30/EU and 2014/35/EU

A copy of our Declaration of conformity is available on request.

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A full list of product compliance certifications can be found in the product User Guide.