Thank you for purchasing the Datapath Aligo QTX100, Aligo TX100 or RX100 units. The aim of this document is to quickly guide you through the process of initial setup. If any of the items are missing, please contact Datapath for further instructions.

OPTIONAL ACCESSORIES
(PURCHASED SEPARATELY)
- 10GB 850NM + Modules (Order Code - SFPPLUS10)
- Rack Mount Kit 1U (Order Code RMK01 (1U)
- Rack Mount Kit 6U (Order Code RMK06 (6U)

CONTENTS
1 x Aligo QTX100 unit,
1 x Aligo TX100 or
1 x Aligo RX100 unit

ALIGO QTX100 (TRANSMITTER UNIT)
- 4 x HDMI locks
- Mains Power Cable
- 2 x 19” cabinet mount attachments
- 4 x USB Cable Type A to Type B

ALIGO TX100 (TRANSMITTER UNIT)
- 5 x HDMI locks
- 4 x M4 mounting screws
- 12V DC external power supply*
- 4 x Rubber feet

ALIGO RX100 (RECEIVER UNIT)
- 4 x HDMI locks
- 4 x M4 mounting screws
- 12V DC external power supply*
- 4 x Rubber feet

*Depending on which unit is ordered. Units shipped for use within a powered rack kit may not have power cables included.
STEP 1 CONNECTING THE ALIGO DEVICES

* Please note the Aligo TX100 only requires a single 10G connection and has only 1 port.
HOW TO CONNECT THE ALIGO QTX100, ALIGO TX100 AND ALIGO RX100

- Connect the Aligo QTX100 or Aligo TX100 to a mains power supply.
- Connect up to four graphic outputs from your video sources to the HDMI input connectors on the rear of the Aligo QTX100 or Aligo TX100. Note: Where only one input is required, then input 1 must be used first before using inputs 2-4. Input 1 must always be connected to a valid HDMI source in order to function correctly, and you can only use inputs 2, 3 or 4 when using input 1.
- Connect SFP+ transceiver modules into the 10Gb SFP+ cages on the Aligo QTX100 or Aligo TX100. There are four 10Gb ports on the Aligo QTX100 and one 10Gb port on the Aligo TX100. (See illustrations).
- Connect an OM3 (minimum) fiber cable into each SFP+ module and connect the other end to the network switch using another SFP+ module at the switch end. We recommend using the same manufacturer model and grade of SFP+ module at both ends of the link. Note: An SFP+ module and 10Gb network connection is required for each HDMI channel i.e. if all four HDMI inputs are used, then all four network connections must be connected.
- Ensure that the switch port chosen has been configured to use the same Local Area Network (LAN/VLAN) as the active Aetria Network Manager server (see Aetria Network Manager Quick Start Guide for more information).
- Now connect an Aligo RX100 into a spare switch port which has also been configured onto the same LAN/VLAN as the Aligo QTX100 or Aligo TX100 devices and the active Aetria Network Manager server. Connect the Aligo RX100 using the 10Gb SFP+ port located on the rear panel.
- Connect the Aligo RX100 HDMI output ports to the display devices. Note: Where only one output display is required, then output 1 must be used first before using outputs 2-4. Output 1 must always be connected to a valid HDMI sink in order to function correctly, and you can only use outputs 2, 3 or 4 when using output 1.
- Repeat as necessary for all Aligo devices required in the system, connecting all endpoints to the switch, or switches such that they appear on the same Local Area Network.
- Where KVM functionality will be required, connect the USB Type-B ports on the Aligo QTX100 or Aligo TX100 into spare USB ports on the source PC’s that you wish to control. For more information on how to configure OneControl KVM feature please see separate Aetria documentation.
- When connecting USB and HDMI ports to the source PC’s for KVM control, care should be taken to ensure that each USB channel matches its relative video channel in each case. i.e. USB1 should connect to the same source as HDMI1 video, USB4 to HDMI4 etc.
**ALIGO QTX100 REAR PANEL**

1. USB Type B connectors - KVM port for connecting to a USB host PC
2. HDMI input connectors - Connect up to four video sources to the Aligo QTX100
3. Power On/Off
4. Mains power connector

**ALIGO QTX100 FRONT PANEL**

5. 10Gb SFP+ Networked Video Transmit Ports.
6. 2 x 1Gb RJ45 Media and Management Ports (implementation specific).
   Please speak to Datapath commissioning representative for further details
ALIGO TX100 REAR PANEL

7 10Gb SFP+ and 1Gb RJ45 Networked Video Transmit Ports
8 Loop through for local monitoring of a 4K workstation
9 HDMI input connectors - Connect up to four video sources to the Aligo TX100
10 Mains power connector

ALIGO TX100 FRONT PANEL

11 USB Type B connectors - KVM port for connecting to a USB host PC
12 Power On/Off
**ALIGO RX100 REAR PANEL**

13 10Gb SFP+ Networked Video Receive Port
14 1Gb RJ45 LAN extension port for connecting to peripheral devices i.e. displays
15 HDMI 2.0 Primary video output port (4K)
16 HDMI 1.2 Secondary video output ports (HD)
17 Audio Out
18 Mains power connector

**ALIGO RX100 FRONT PANEL**

19 USB Ports for connecting to HID devices such as keyboard and mouse
20 Power On/Off
## LED'S

<table>
<thead>
<tr>
<th>Power</th>
<th>The green power LED indicates that the device is connected to a power supply and is switched on. Amber power LED means power is available, but board is switched off (RX100 only).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Link</td>
<td>Off - The device is still powering up. Flashing on/off - Indicates the device has booted correctly (occurs approximately 30 seconds after power on) but it is not currently registered with the active Aetria Network Manager server. Solid on - Indicates that the device has booted and the device is currently registered by the active Aetria Network Manager server.</td>
</tr>
<tr>
<td>Video</td>
<td>Flashing on/off - Indicates that no stable video has been received/transmitted since last power on. Off - Indicates that no stable video is currently being received/transmitted, but video has previously been received/transmitted on one or more channels since the last power on. Solid on - Indicates that a stable video source on one or more channels has been locked onto by the device and transmitted out onto the network (TX) / received from the network and output to HDMI sink (RX).</td>
</tr>
<tr>
<td>10G Ports</td>
<td>The Aligo QTX100 and Aligo RX100 have LEDs on the 10G ports to indicate that each network channel has good stable power.</td>
</tr>
</tbody>
</table>
STEP 2 CONFIGURING ALIGO DEVICES WITHIN AETRIA

Check Device Connections and Network Configuration

First, double check all Aligo devices are connected to the network switch and to their respective video sources and displays as above before proceeding.

Also ensure that all Aligo devices are on the same Local Area Network (LAN/VLAN) as the Aetria Network Manager server. This will have been pre-configured by Datapath and should be connected, powered up and running before going any further.

Once all Aligo devices are connected and powered up, you can verify each device is ready to connect by checking the link LED is flashing (as per the table on page 7), indicating that it is ready and waiting to be provisioned within Aetria.

Aligo Device Discovery (Provisioning)

On any machine connected to the Aetria Network, open up a web browser and navigate to the Aetria login page by following the login instructions. Enter user credentials.

Once within the Aetria Command Center, go to the Manage tab, and select Hardware Configuration. Then click on Provisioning (highlighted right) to discover the new Aligo sources and add them to the system.

Under the All Devices panel, you will find any new Aligo devices that have been provisioned on the network. Once a device has been successfully provisioned, the link LED on each device will be in a solid ON state.

From this point on please refer to the Aetria Command Center Quick Start Guide for further details on using the system.
From within Aetria you can check all devices are communicating properly by checking the serial numbers against the discovered devices.

You have now successfully added your new devices to the Aetria system.
Class A Declaration of Conformity

Datapath Ltd Declares that this product complies with the essential requirements and other relevant provisions of;

- UK Government Electrical Equipment (Safety) Regulation 2016, Electromagnetic Compatibility Regulation 2016 and RoHS Regulation 2012

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

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.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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