

QUICK START GUIDE

Cabling the Link for Aquilon



ANALOG WAY®

Thank you for choosing **Analog Way** and the **Aquilon series**. By following these two simple steps, you will be able to cable the Link for up to four Aquilon 4K/8K/16K multi-screen presentation systems.

REQUIREMENTS

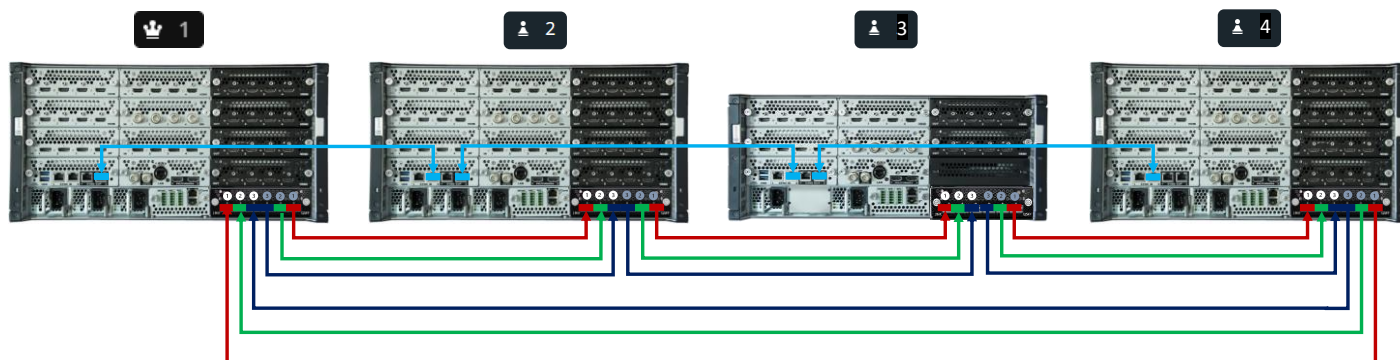
- Up to 4x Aquilon (any type-any size)
 - o With the same firmware version
 - o Equipped with one of these options: UP-RSX-TO-LINK, UPD-AQL-LINK or OPT-AQL-LINK
- Short distance link
 - o Equipped with the standard RJ45 Synchronization card or ACC-AQL-SYNC-SFP Synchronization card
 - o Up to 4 sets of DAC Link cables (ref. ACC-AQL-LINK-DAC-SET-1M and ACC-AQL-LINK-DAC-SET-3M)
 - o Up to 7x Ethernet cables (up to 3 for device sync and up to 4 for device control) and up to 6x RJ45 SFP modules (like ref. ACC-AQL-RJ45-1G-SFP) when using the ACC-AQL-SYNC-SFP Synchronization card
- Long Distance link
 - o Equipped with ACC-AQL-SYNC-SFP
 - o Up to 500m/1640ft: up to 4 sets of 40G-QSFP+ single mode optical fiber modules (ref. ACC-AQL-LINK-SET-SM-TRX) and up to 4x single mode optical fiber cables with duplex LC connectors
 - o Up to 4x Ethernet cables for device control
 - o Up to 6x SFP optical fiber modules (like ref. ACC-AQL-SM-TRX-1G-SFP) and up to 3x optical fiber cables for device sync
- 1 x Web-based Remote Control Software included and hosted on the Leader device

* User Manual and quick start guides are also available on www.analogway.com

INTRODUCTION

When creating a Linked system, one unit must be chosen as the leader (represented as the chess King in the Web RCS) and the others will be followers (represented as Pawns).

The control of the Linked system is achieved via the leaders' Web RCS of the Leader. The followers' Web RCSs have limited access (status/IP address of the leader/unlink).

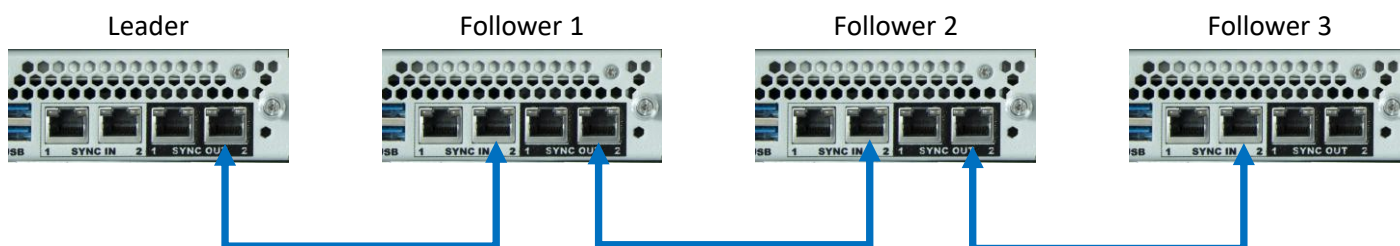


IMPORTANT:

- The first and the last device must be within 3 meters maximum of each other (max length of DAC cables).
- If Wake-on-LAN (WoL) should be used, please connect the control port of each unit to the the network, get their MAC address and enable the feature prior to linking. The magic packet must be send to all the units in the linked system to wake them up.

STEP 1A: connecting the Standard RJ-45 Synchronization card

Connect all units via an Ethernet cable linking an RJ45 **out connector 2** of one device to an RJ45 **in connector 2** of the following device (point to point).

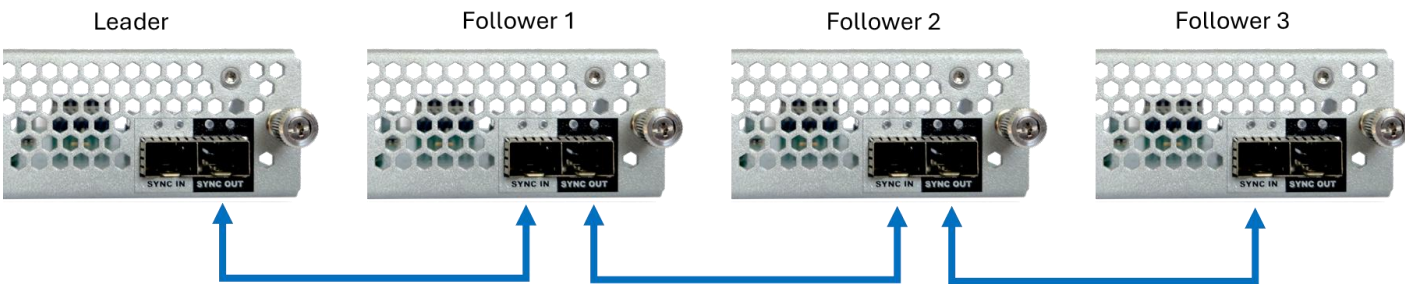


The chain ends at the last device, without closing the loop.

When properly connected, an orange LED (indicating connection speed) should be on and a green LED (indicating network activity) should be blinking.

STEP 1B: connecting the ACC-AQL-SYNC-SFP card

Connect the selected units point to point via a synch out SFP cage of one device to a synch in SFP cage of the following device using an SFP module solution.



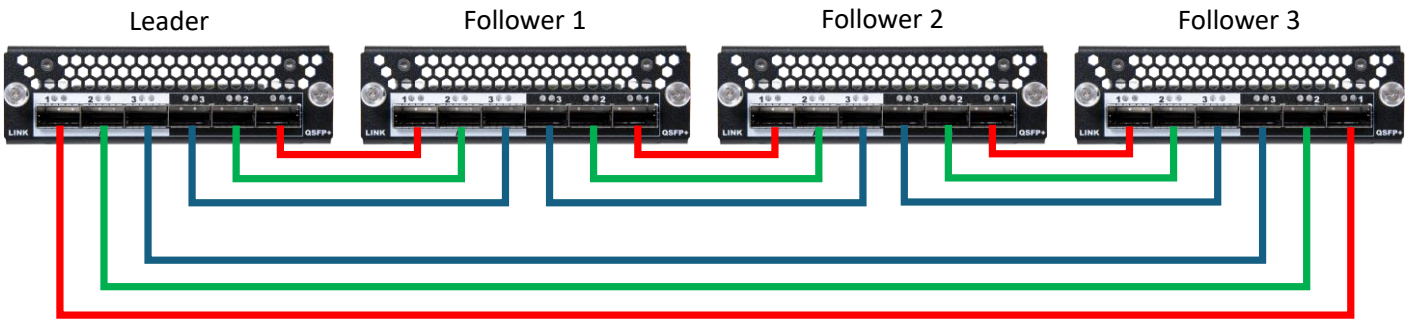
The chain ends at the last device, without closing the loop.

SPF cage LED indicators:

Color	LEFT LED	Color	RIGHT LED
●	SFP cage detected or hardware communication problem with the inserted cage	○	Default setting while waiting for green status on the left LED
●	Incompatible software	●	Fiber communication problem (Tx or Rx)
●	OK	●	Ready for network discovery and LINK

STEP 2: connecting the LINK cables

A link video ring must be created by connecting the QSFP outputs (black area) of each device's Link connector card to the QSFP inputs (white area) of the next device's Link connector card.



IMPORTANT: Please carefully respect the numbering of the connector (OUT 1 to IN1, OUT 2 to IN 2 and OUT 3 to IN 3)

TIP: The DAC link cables are equipped with colored wrap label with marking: RED / GREEN /BLUE. Always use the same color with the same number: 1 = RED, 2 = GREEN, 3 = BLUE. QSFP+ fiber transceivers are not identified by color labels and must be wired carefully.

