CLAIMS

1. A display module for a modular display system, comprising:

one or more short-range data connections configured to share a module ID of the display module to one or more adjacent display modules, wherein the display module is connected to each adjacent display module with a short-range data connection, wherein each short-range data connection is associated with a connector ID and the module ID is sent through the short-range data connection to each adjacent display module;

a wireless communication unit configured to wirelessly transmit the module ID of the display module to a controller module of the modular display system with one or more module IDs received from adjacent display modules and connector IDs of the corresponding short-range data connections; and

a display module configured to display an image portion received wirelessly from the controller module.

2. The display module of claim 1, wherein the wireless communication unit is configured to connect to a Wi-Fi access point, receiving an IP address and setting the received IP address as the module ID.

3. The display module of claim 1 or claim 2, wherein the image portion is a portion of a first frame in a moving image, and the display module comprises a processor configured to:

receive and store a second image portion of a second frame in the video stream; and

display the second image portion after a predefined frame duration has elapsed.

4. The display module of any preceding claim; comprising

a housing with 3 or more side walls, an upper face and a base;

a light-emitting diode, LED, panel comprising a plurality of LEDs, the LED panel arranged on the upper face of the housing;

wherein the short-range data connections are arranged on each side wall.

5. The display module of claim 4, wherein the number of side walls is a tessellation number.

6. The display module of claim 4 or claim 5, further comprising a memory configured to store the received image portion.

7. The display module of any one of claims 4 to 6, wherein each side wall includes a mechanical butterfly connector.

8. The display module of any one of claims 4 to 7, wherein the short-range data connection comprises a wired connector.

9. The display module of claim 8, wherein each wired connector is further configured to transmit power between adjacent display modules.

10. A modular display system comprising a plurality of the display modules according to any preceding claim, and a controller module, wherein the controller module comprises:

a wireless communication unit; and

a processor configured to:

wirelessly receive the modules ID of a plurality of display modules of the modular display system, each transmitted with one or more module IDs of adjacent display modules and connector IDs of respective short-range data connections between the display modules;

determine an arrangement of the plurality of display modules;

scale and divide an image to be displayed on the modular display system into a plurality of image portions; and

wirelessly transmit a respective image portion to each of the plurality of display modules.

11. The modular display system of claim 10, wherein the processor is further configured to configure a Wi-Fi access point and provide an IP address to each connected display module.

12. The modular display system of claim 10 or claim 11, wherein the processor is further configured to configure a webserver to generate and output a graphical user interface, GUI, which

includes the determined arrangement of the plurality of display modules, and receive the image to be displayed on the modular display system.

13. The modular display system of any one of claims 10 to 12, wherein the controller module is integrated with one of the display modules.

14. A computer program or computer program product comprising instructions, or a non-transitory computer-readable medium configured to store instructions, which, when executed by a processor, cause the processor to:

share a module ID of a display module to one or more adjacent display modules, wherein the display module is connected to each adjacent display module with a short-range data connection, wherein each short-range data connection is associated with a connector ID and the module ID is sent through the short-range data connection to each adjacent display module;

wirelessly transmit the module ID of the display module to a controller module of the modular display system with one or more module IDs received from adjacent display modules and connector IDs of the corresponding short-range data connections; and

display an image portion received wirelessly from the controller module on the display module.