TESSERA R2

The revolutionary LED Panel receiver card
Brompton Technology’s **Tessera R2** receiver card takes a new **module-based design** approach to produce the most powerful ever LED panel receiver card. Now an industry standard, **R2** uses **cutting-edge technology** to ensure a perfect combination of capacity, size and features. Supporting 262k output pixels, it is ideal for all types of panels, including sub-2mm fine pitch products.

The **R2** works with all **Tessera** processors, which are packed with industry-leading features such as **Brompton**’s intuitive software system, built-in scaling, extensive colour adjustments, flexible output mapping, and live control over DMX. Other advanced features include:

- **Superior greyscale performance** - Especially when the LED panels are run at low brightness as is typical in many studio applications
- **Module storage** - Reading calibration data from the LED modules so modules can be swapped without having to recalibrate
- **Advanced calibration options** - Allowing video engineers to make on-site tweaks, for example applying edge-correction to compensate for mechanical seams between panels using **On-Screen Colour Adjustment (OSCA)**

**GIGABIT ETHERNET**

All processors in the **Tessera** family communicate via Gigabit Ethernet with LED panels fitted with **Tessera** receiver cards. Off-the-shelf Gigabit Ethernet networking equipment and cabling can be used.

**DESIGN SUPPORT**

Reference designs are provided to aid hub board design, and our multilingual **Field Application Engineers** are always available to support the integration of new panels remotely or locally from our Shenzhen office.

**SMALLER FORM FACTOR**

Measuring just 68x32mm and using the widely-available **DDR2 SO-DIMM** socket to integrate it, the compact form factor of the **R2** module effortlessly fits in small hub board designs that continue to decrease in size.

**SPECIFICATIONS**

**PROCESSING**
- 262,144 RGB pixels capacity
- 16 bit-per-channel processing

**NETWORK**
- Two Gigabit Ethernet data connections

**MECHANICAL**
- DDR2 SO-DIMM form factor

**OUTPUTS**
- All major driver ICs supported
- Up to 72 output data channels

**SENSORS & UI**
- Support for sensors (e.g. temperature)
- Support for user interfaces (e.g. status LEDs, push buttons)