BROMPTON TECHNOLOGY

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 capability, 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, flexible and fast output mapping, HDR and extensive accurate colour control. Other advanced features include:

- **Superior greyscale performance -** Especially when using exclusive Brompton features Dark Magic and PureTone
- **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

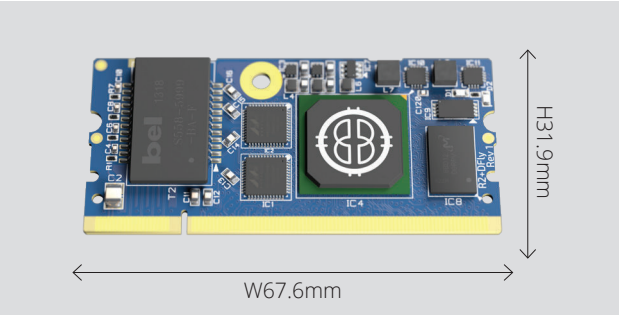
Reference designs are provided to aid hub board design, and our multilingual **Field Application Engineers** are always available to support the integration of new panels remotely or locally from our Shenzhen office.

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.

R2+

Brompton Technology's **Tessera R2+** receiver card takes the iconic R2 receiver card design and updates it to make even more panel designs possible. The R2+ remains completely backwards compatible with R2 panel designs, but brings more data pins and capacity to support new LED drivers, making it possible to support even more panel types going forward.



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 144 output data channels

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

Established in 2012, Brompton Technology is based in West London and is a spin-off from Carallon, a serial innovator in the entertainment technology space. It operates in the rapidly expanding LED Video display sector, and product designs come from years of Industry and engineering experience, and an acute understanding of the current marketplace. This has resulted in it fast becoming a globally known and respected brand within this sector.
More information can be found at www.bromptontech.com.

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