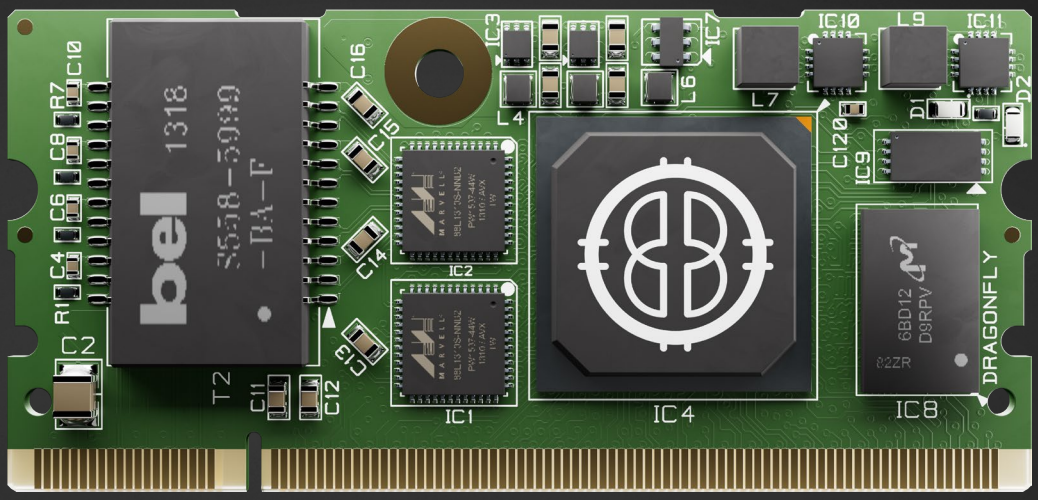
BROMPTON TECHNOLOGY

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)

Brompton Technology is the market leader in LED video processing for the most demanding applications across key sectors including Virtual Production & ICVFX, Live Events & Touring, Corporate & Education, Broadcast & Studio and Esports. The company has won multiple awards and become a globally respected brand, known for the quality and reliability of its products and exceptional technical support. For more information, visit www.bromptontech.com.

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