





In addition to electronic component and systems distribution, Symmetry Electronics, a division of Braemac, employs in-house engineers available to provide hands-on consulting and facilitate value-added services to accelerate the design and development process. Key services include turnkey design, assembly/sub-assembly, customization, kitting & logistics, programming, and re-balling-all available on a global scale.



Turnkey Design Service

Symmetry Electronics offers design services, assembly, and testing of complete customized solutions.



Assembly / Sub-Assembly

Our assembly/sub-assembly services address full turnkey box solutions integrating all electronics including PCBA, cables, power supplies, display, and single board computer, all in an enclosure. This service pairs well with our design and kitting & logistics services for seamless support in getting your project off the ground.



Customization

Our customization services allow engineers to address the unique needs of their project. Key examples of our capabilities include:

1. Adding your company logo to a power adapter to make it appear as your own
2. Changing a connector type
3. Adding a serial port or additional peripheral to meet your desired specification
4. Including a custom loom with a Box PC as a bundle



Kitting & Logistics Service

Leave the component sourcing up to Symmetry Electronics with our extensive portfolio of industry-leading manufacturers spanning solutions for power, chip, compute, displays, test and software, and cable and interconnect. Beyond our line card, Symmetry Electronics has access to a deep ecosystem of sourcing partners, including nine affiliated brands, and counting. Symmetry Electronics will source your Bill-of-Materials and provide vendor managing inventory (VMI) support to provide timely shipments according to customer forecast.



Programming Service

Through our programming service, Symmetry will program parts for our customers prior to shipment. Common uses include customers requiring more added security for their program file, or when production volumes are high and in-circuit programming proves to be a time-consuming task.



Re-Balling Service

Our re-balling service is provided for Ball Grid Array (BGA), Chip Scale Packages (CSP), or packages with solder balls on the underside, where lead free solder balls are removed and replaced with leaded solder balls. Re-balling is commonly utilized in Defense and Aerospace applications.



Our Components. Your Innovation.

Established in 1998, Symmetry Electronics, a Division of Braemac, is a global distributor of electronic components and systems. Combining a comprehensive set of value-added engineering services and premier components with an expert in-house engineering team, Symmetry supports innovators in designing, developing, and implementing a wide range of connected technologies.



Exponential Technology Group Member

Acquired by Berkshire Hathaway's TTI, Inc. in 2017, Symmetry Electronics is a proud Exponential Technology Group (XTG) member. A collection of specialty semiconductor distributors and engineering design firms, XTG stands alongside industry leaders including TTI Inc., Mouser Electronics, and Sager Electronics. Together, we provide a united global supply chain solution with the shared mission of simplifying engineering, offering affordable innovations, and assisting engineers in accelerating their time to market.

the **TTI FAMILY**
of **SPECIALISTS**

