

New Product Announcement

Now at Mouser: Qorvo's Low-Power, High-Gain QPA9121 Driver Amplifier for 5G mMIMO Applications

December 19, 2019 – [Mouser Electronics](http://www.mouser.com), Inc. and [Qorvo](http://www.qorvo.com) today introduced into the distribution channel the [QPA9121](#) driver amplifier, part of Qorvo's innovative RF portfolio of gallium nitride (GaN) transistors and amplifiers. The wideband, high-gain, and high-peak-power driver device uses Qorvo's advanced gallium arsenide heterojunction bipolar transistor (GaAs HBT) process technology to enable exceptional power density, reliability, and gain in a reduced footprint.

"For mobile infrastructure applications, Qorvo is a leading manufacturer that offers the core technologies and cutting-edge RF solutions designers want. We are very excited to stock the QPA9121 driver amplifier for our customers worldwide," said Jeff Newell, Mouser Senior Vice President of Products. "As the industry's NPI leader, Mouser is committed to offering the products, resources, and distribution expertise necessary to help designers accelerate the delivery of next-generation RF and IoT products to the market."

The [Qorvo QPA9121](#) driver amplifier, available from Mouser Electronics, is a [low-power](#) solution ideal for variety of [RF wireless](#) infrastructure, repeaters and distributed antenna systems and applications. The device features an operational frequency range of 2.3 GHz to 5 GHz, and is internally matched to 50 Ω over the entire operating frequency band. The amplifier provides 27 dBm P3dB with a 28 dB gain at 2.6 GHz, and have been proven to deliver excellent DPD correction with 5G signals as wide as 160 MHz.

With a quiescent current of 95 mA, the QPA9121 can also function as a driver in a transmit path DPD loop, perfectly suited for massive multiple-input, multiple-output (mMIMO) applications — the transmitting and receiving of multiple data streams simultaneously over mobile 5G using several antennas on the base station and the same time/frequency resources. The amplifier is supported by the [QPA9121EVB-01](#) evaluation board, also available from Mouser.

To learn more, visit <https://www.mouser.com/new/qorvo/qorvo-qpa9121-driver-amplifiers/>.

As an authorized distributor, Mouser Electronics is focused on the rapid introduction of new products and technologies, giving customers an edge and helping speed time to market. Over 800 semiconductor and electronic component manufacturers count on Mouser to help them introduce their products into the global marketplace. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each manufacturer.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 800 manufacturers. Mouser offers 27 support locations around the world to provide best-in-class customer service and ships globally to over 630,000 customers in 223 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About Qorvo

Qorvo makes a better world possible by providing innovative Radio Frequency (RF) solutions at the center of connectivity. The company combines product and technology leadership, systems-level expertise and global manufacturing scale to quickly solve customers' most complex technical challenges. Qorvo serves diverse high-growth segments of large global markets, including advanced wireless devices, wired and wireless networks and defense radar and communications. The company also leverages unique competitive strengths to advance 5G networks, cloud computing, the Internet of Things, and other emerging applications that expand the global framework interconnecting people, places and things.

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