



Mobix Labs Introduces MOBX222 Frequency Converter in Collaboration with Airgain for Futureproofing 5G

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– Supports FR1 BB, CBRS and C-Band alongside of FR2 mmWave in 28nm Bulk CMOS –
– New Integrated Circuit Will Be Previewed at Mobile World Congress in Barcelona –

IRVINE, Calif., Feb. 22, 2023 (GLOBE NEWSWIRE) —[Mobix Labs Inc.](#), a global connectivity solutions provider for next-generation wireless mmWave 5G and wired high bandwidth cable networks, today introduced its MOBX222™, the company's latest up/down frequency converter that is being offered as a standalone product or part of a complete True5G™ chipset with beamformers and synthesizers. The product was designed in collaboration with Airgain, Inc.(NASDAQ:AIRG), a leading provider of wireless connectivity solutions.

The MOBX222 is an integrated circuit designed to provide device flexibility for various 5G applications by allowing for interoperability across frequency bands. It is baseband agnostic and includes 2-Channel 5GNR mmWave, Frequency Range 2 (FR2) and FR1.

"5G cellular technology is rapidly growing and ever evolving and it is often difficult to develop devices with any degree of shelf life," said Fabian Battaglia, CEO of Mobix Labs. "We believe this innovative frequency converter will help futureproof 5G designs by providing flexibility in developing FR1 and FR2 products. It is yet another demonstration of our industry leading technology that continues to disrupt the global wireless market."

Product features of the MOBX222 include:

- Manufactured in 28 nanometer bulk CMOS
- Designed with a land grid array package for optimal thermal performance over an ambient operating temperature range of -40 °C to +85 °C
- Supports frequency bands n257 through n262, CBRS and C-band spectrum (3.3-4.2GHz)
- True single-chip, single-die solution
- Equipped with a single 1.8 Vdc supply for all device sections including Tx, Rx and SPI control
- Enables the use of input/output frequencies of DC-800MHz and 2.3-7GHz IFs for up/down conversions to mmWave frequencies of 24.25-49GHz
- Switch matrix allows up/down conversions between 5G C-band and baseband signals for transmitting and receiving
- FR1 Tx path integrates a high-linearity power amplifier and a RF power detector circuit

- Baseband input uses a balanced quadrature configuration with a 100Ω differential input impedance while all IF and mmWave inputs and outputs are single ended 50Ω matched

“Enhancing 5G network coverage and improving end user experience is the focus of our product development,” said Dr. Ali Sadri, chief technology officer at Airgain. “We believe our collaboration with Mobix Labs in defining the MOBX222 frequency converter can simplify enhanced features by adding flexibility to the design of 5G products.”

MWC Barcelona 2023

Mobix Labs will be demonstrating a host of products including the MOBX222 at MWC Barcelona 2023 with Airgain, Inc. (booth 7G21) at Fira Barcelona Gran Via from February 27 to March 2. The company will be sampling the MOBX222 to strategic customers and partners in Q3 2023.

Contact info@mobixlabs.com for MOBX222 sales and sampling information.

About Mobix Labs

Based in Irvine, California, Mobix Labs Inc. is a fabless semiconductor company delivering disruptive next generation wireless and connected solutions for a broad range of applications in markets including 5G infrastructure, automotive, consumer electronics, defense, healthcare, military and space. Through its True5G™ and True Xero™ technologies, the company develops ultra-compact, fully integrated, single-chip, single-die, CMOS-based mmWave beamformers, antenna solutions and RF/mixed signal semiconductors necessary for mmWave 5G and next-generation wireless products. The company also develops hybrid active optical cables, transceivers and optical engines for the data center, home entertainment and consumer electronics markets. More information on the company can be found by visiting <http://www.mobixlabs.com> or by following on Twitter [@MobixLabsInc](https://twitter.com/MobixLabsInc) and [LinkedIn](https://www.linkedin.com/company/mobixlabs).

About Airgain, Inc.

Airgain simplifies wireless connectivity across a diverse set of devices and markets, from solving complex connectivity issues to speeding time to market to enhancing wireless signals. Our products are offered in three distinct sub-brands: Airgain Embedded, Airgain Integrated and Airgain Antenna+. Our mission is to connect the world through optimized integrated wireless solutions. Airgain's expertise in custom cellular and antenna system design pairs with our focus on high-growth technologies and our dedication to simplify the growing complexity of wireless. With a broad portfolio of products across the value chain, from embedded components to fully integrated products, we are equipped to solve critical connectivity needs in both the design process and the operating environment across the enterprise, automotive, and consumer markets. Airgain is headquartered in San Diego, California, and maintains design and test centers in the U.S., U.K., and China. For more information, visit airgain.com, or follow Airgain on LinkedIn and Twitter.

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Forward-Looking Statements

Statements in this press release that are not descriptions of historical facts are forward-looking statements within the meaning of the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These forward-looking statements include, but are not limited to, statements about our plans, objectives, forecasts, representations and contentions and are not historical facts and typically are identified by use of terms such as “may,” “will,” “should,” “could,” “expect,” “plan,” “forecast,” “anticipate,” “believe,” “estimate,” “predict,” “potential,” “continue” and similar words, although some forward-looking statements are expressed differently. These forward-looking statements are based on management’s current expectations and assumptions and are subject to risks and uncertainties described more fully in the company’s filings, as well as in 8-K, 10-K, and S-4 filings of Chavant Capital Acquisition Corporation with the Securities and Exchange Commission. Factors that could cause actual results to differ materially from those currently anticipated include, without limitation, risks relating to the results of research and development activities, including uncertainties relating to semiconductor process manufacturing; the early stage of the Company’s technology presently under development; the ability to protect intellectual property rights that are valuable to the business, including patent and other intellectual property rights; the ability to successfully market and sell technologies; the ability to achieve high volume manufacturing and the size and growth of the potential markets for any of the Company’s technologies, the rate and degree of market acceptance of any of technologies and the ability to raise funding to support operations and the continued development and qualification of technology. In light of these risks, uncertainties and assumptions, the forward-looking statements regarding future events and circumstances discussed in this press release may not occur, and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. These forward-looking statements should not be looked upon as predictions of future events. The forward-looking statements included herein speak only as of the date hereof, and the Company undertakes no obligation to update publicly or privately any forward-looking statements for any reason after the date of this release to conform these statements to actual results or to changes in expectations.

Airgain cautions you that statements in this press release that are not a description of historical facts are forward-looking statements. These statements are based on the company’s current beliefs and expectations. These forward-looking statements include statements regarding: the expected outcomes of the development, time to market, the performance of, and market for, Airgain’s products or those of its partners; and the anticipated benefits of the partnership with Mobix Labs. The inclusion of forward-looking statements should not be regarded as a representation by Airgain that any of our plans will be achieved. Actual results may differ from those set forth in this press release due to the risks and uncertainties inherent in our business, including, without limitation: the products and their development may not yield the expected benefits; the market for our products is developing and may not develop as we expect; risks associated with the performance of our products, including bundled solutions

with third-party products; if our channel partners fail to perform, or our partnerships are unsuccessful, we may not be able to bring our product solutions to market successfully or on a timely basis; our products are subject to intense competition, and competitive pressures from existing and new companies may harm our business, sales, growth rates and market share; the COVID-19 pandemic, global supply chain constraints and rising interest rates and inflation may continue to disrupt and otherwise adversely affect our operations and those of our suppliers, partners, distributors and ultimate end customers; risks associated with any regulatory approvals that may be required; risks associated with quality and timing in manufacturing our products and our reliance on third-party manufacturers; we may not be able to maintain strategic collaborations under which our bundled solutions are offered; if we cannot protect our intellectual property rights, our competitive position could be harmed or we could incur significant expenses to enforce our rights; and other risks described in our prior press releases and in our filings with the Securities and Exchange Commission, including under the heading "Risk Factors" in our Annual Report on Form 10-K and any subsequent filings with the SEC. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof, and we undertake no obligation to revise or update this press release to reflect events or circumstances after the date hereof. All forward-looking statements are qualified in their entirety by this cautionary statement, which is made under the safe harbor provisions of the Private Securities Litigation Reform Act of 1995.

Mobix Labs Media Contact:

George Medici
PondelWilkinson Inc.
gmedici@pondel.com
310.279.5968

Airgain Media Contact:

Brian Critchfield
VP, Global Marketing
media@airgain.com
(760) 579-0200 x5412