



Mobix Labs Launches the World's First High-Power SP10T RF Switch for the Land Mobile Radio Market

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Supports Critical Communications for First Responders, Firefighters, Law Enforcement, and Military Personnel with Improved Connectivity and Enhanced Coverage

IRVINE, Calif.--(BUSINESS WIRE)--Apr. 30, 2024-- [Mobix Labs, Inc.](#) (Nasdaq: MOBX), a fabless semiconductor company developing next-generation connectivity solutions spanning wired and advanced wireless systems, today introduced the MBX3110 SP10T high-power radio frequency (RF) switch. The first-of-its-kind, this CMOS-based single-pole/ten-throw (SP10T) switch is engineered to meet the demanding requirements of the land mobile radio (LMR) market, including critical communications for first responders, firefighters, law enforcement, and military personnel.

The high-power MBX3110 RF switch provides robust support for LMR applications and is also versatile enough to serve a variety of sectors including defense systems and advanced wireless infrastructure. Optimized for high-reliability switching tasks, the MBX3110 also can replace pin diodes in sophisticated test equipment, underscoring its broad utility and revolutionary impact across multiple industries. In addition, solid-state RF switches like the MBX3110 outperform equivalent electromechanical switches in most applications, offering greater reliability, faster switching speeds and longer lifetimes.

"The introduction of MBX3110 SP10T switch sets a new industry standard for high-power RF switching," said Fabian Battaglia, CEO of Mobix Labs. "We designed this new RF switch to support the wider bandwidth required by the LMR market to ensure uninterrupted access and a clear, reliable signal. Its high linearity, low insertion loss, and rapid switching capabilities enable it to perform in the most demanding environments, pushing the boundaries of what's possible in RF applications."

The global RF switch market is poised for significant growth, projected to expand from \$13 billion in 2021 to \$60 billion by 2032, as reported by the research firm Global Market Insights. This growth underscores Mobix Labs' RF switching technology innovation and strategic expansion into new and profitable markets.

Key Features of the MBX3110 SP10T Switch:

- **High-Power Performance:** The MBX3110 RF switch offers world-class performance at a low cost, featuring wider frequency range, lower insertion loss, and faster switching times compared to existing market offerings. These benefits enable users to extend the frequency range beyond the current spectrum without the need for external matching.
- **Optimized Specifications:** The MBX3110 boasts a low insertion loss of 0.52 dB at 1 GHz, high linearity of -78dBc at 43 dBm, and a rapid switching time of only 4 microseconds, ensuring best-in-class performance in demanding applications.
- **Compact Design:** Packaged in a small 32-lead 5mm x 5mm QFN, the MBX3110 is ideally suited for applications where both performance and size are critical, making it a versatile choice for a wide range of RF applications.

Availability

Samples of the MBX3110 SP10T switch are available now, and production volume is planned for Q3 2024.

About Mobix Labs, Inc.

Based in Irvine, California, Mobix Labs is a fabless semiconductor company delivering advanced wireless and wired connectivity, switching and filtering technologies for next-generation communication systems supporting the aerospace, defense, 5G, medical and other high-reliability markets. We focus on electromagnetic interference (EMI) solutions for secure aerospace GPS systems and optical cables designed to meet the unique challenges of high-speed interconnect and AI datacenters, ensuring high performance and reliability in demanding applications. Visit [mobixlabs.com](#) and follow us on [LinkedIn](#).

Forward-Looking Statements

This press release contains forward-looking statements. These statements are made under the "safe harbor" provisions of the U.S. Private Securities Litigation Reform Act of 1995. Statements that are not historical facts, including statements about capturing additional opportunities in the future, are forward-looking statements. Forward-looking statements, including those regarding potential future opportunities, are subject to inherent risks and uncertainties. Factors such as Mobix Labs' ability to acquire, develop, and deliver the high-power MBX3110 RF switch, as well as the potential for an increase in sales volume, if any, could cause actual results to differ materially from these statements. In some cases, forward-looking statements can be identified by words or phrases such as "may," "will," "expect," "anticipate," "target," "aim," "estimate," "intend," "plan," "believe," "potential," "continue," "is/are likely to" or other similar expressions. All information provided in this press release is as of the date of this press release, and Mobix Labs undertakes no duty to update such information, except as required under applicable law.

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