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Startup's LTE protocol stack wins major design-ins

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LONDON — 4M Wireless, a start-up focusing on protocol stacks for LTE technology, has won a major design-in with Sandbridge Technologies for the latter's multi-mode baseband/multimedia processors for mobile devices.

4M Wireless (Luton, England) is providing its PS100 LTE protocol stack for Sandbridge's Sandblaster-based SB3500 baseband processor as source code optimised for the SB3500 platform, taking full advantage of its capabilities to provide a low memory footprint along with highly efficient execution.

The PS100 LTE protocol stack has already been designed in to LTE conformance testers made and being readied by Anite, as well as other testers whose identity 4M Wireless would not divulge.

The company, founded in 2006 and backed by private investors, has developed the LTE stack as a complete Layer 2, Layer 3 and NAS protocol software compliant to the latest 3GPP Release 8 specifications and suitable for additional updates to the emerging standard.

The protocol stack is said to be easily integrated with a variety of hardware platforms and operating systems and is designed to meet memory and performance requirements for 4G multimode handsets as well as modems and embedded devices for laptops and desktop computers. The stack is continuously subjected to inter-operability testing with leading infrastructure vendors.

Sandbridge Technologies' 4G capable dynamically reprogrammable SB3500 multi-mode baseband processor is said to be the [the most advanced baseband processor](#) available and the first capable of running LTE on a handset.

Atif Malik, CEO of 4M Wireless, commented in a statement: "4M Wireless is the ideal partner for companies looking to develop 4G multimode chipsets and mobile platforms. Our LTE protocol stack reduces overall system cost and time-to-market, and frees expensive engineering resources from the complexities of developing and maintaining the protocol stack, to focus on baseband chip development and peripheral mix."

"Partnerships with independent software companies such as 4M Wireless demonstrates the ease of programmability and robustness of the Sandblaster integrated development environment (IDE) and enables us to build an eco-system of third party software around the SB3500 platform to provide comprehensive solutions to our mutual customers," added Tanuj Raja, VP business development at Sandbridge (Tarrytown, NY).

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