

According to Adam Smith, director of product marketing at LitePoint, the company's product focus for 2020 is in three main areas: 5G, both sub-6-GHz FR1 and mmWave FR2; Wi-Fi 6E, utilizing the 6-GHz unlicensed band; and Ultra-Wideband (UWB), based on an emerging application space in accurate positioning and ranging.

"LitePoint has recently released new products to address the unique technical requirements of each of the technologies listed above," Smith said. First, he described the IQgig-5G Model B as "Our second-generation 5G mmWave product focused on scaling 5G mmWave FR2 end-products to high-volume manufacturing. Currently, the IQgig-5G is the only fully-integrated mmWave test system in the market, deployed on manufacturing lines testing up to four devices in parallel.

Further, IQgig-5G offers best-in-class error vector magnitude (EVM) performance across all existing and forthcoming 3GPP bands, in a contiguous 23- to 45-GHz range."

Smith said the IQxel-MW 7G is specifically targeted at testing Wi-Fi 6E products. "The IQxel-MW 7G is a fully-integrated wireless connectivity test solution that addresses the high-performance needs of products launching later this year, operating in the new 6-GHz unlicensed band (6 to 7.125 GHz)," he said. "IQxel-MW 7G is a reference solution at silicon solution providers, backward-compatible with LitePoint's widely-deployed installed base of IQxel family testers, enabling companies integrating the latest Wi-Fi technology to get to market (and volume) quickly."

Smith also commented on the IQgig-UWB. "UWB technology introduces some very unique requirements that do not conform to traditional wireless connectivity standards like Wi-Fi or Bluetooth," he said. "Specifically, UWB operates in a frequency range up to 10.6 GHz at instantaneous signal bandwidths of approximately 500 MHz to more than 1 GHz. Additionally, instead of metrics like EVM that we have been accustomed to testing in OFDM-based technologies, UWB's performance metric is focused on accurate measurement of timing. IQgig-UWB uniquely includes a precise trigger mechanism to enable accurate time-of-flight (ToF) and jitter measurements for UWB products."



▲ LitePoint IQgig-5G Model B second-generation 5G mmWave instrument.

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