

In-Building DAS Antennas to Support Rapid LTE Growth

Galtronics Corporation announced growing momentum for its PEAR in-building DAS antenna line with the availability of an additional dual-polarized MIMO and two vertically-polarized antennas. The new antennas, showcased today at DAS in Action 2012: Atlanta, support the broad coverage, throughput and high data rates driven by a growing wireless industry shift to 4G/LTE networks. Additionally, major national U.S. carriers are giving their stamp of approval by qualifying and recommending Galtronics PEAR MIMO technology. Qualifications like this document the high performance of Galtronics products with new and emerging 4G/LTE networks.

“With PEAR, our goal is to help carriers, venue managers and building owners provide their customers with the best in-building wireless experience while staying on the forefront of 4G/LTE networks. Our PEAR antenna product line provides installers, network operators and building owners tangible value,” said Ephraim Ulmer, CEO of Galtronics Corporation Ltd. “Based on our broad knowledge and understanding of in-building multi-path signal propagation, we design and optimize our PEAR products to enable the full potential of the 4G MIMO system. Our flexible patented installation methods below, above, and through the ceiling provide an answer to the needs of venue managers and building owners without compromising the performance of the system.”

MIMO: Enabling 4G LTE Performance

MIMO capability is fundamental for 4G systems in order to realize the full benefits of 4G/LTE networks. Further, achieving MIMO requires taking advantage of the multi-path environment, which is at the core of Galtronics’ PEAR antenna product line. Galtronics’ newest MIMO offering, PEAR M4969, is an omni-directional antenna that delivers high-quality performance providing MIMO for the full 1.7GHz to 2.7GHz frequency range with one antenna port covering 698MHz – 6000MHz. This makes it ideal for supporting MIMO at AWS, UMTS, HSPA+ and LTE 2.6. It is the third MIMO antenna available through the Galtronics PEAR product line, expanding on last year’s releases of PEAR M4772 and M4773.

Vertically Polarized: Broad Bandwidth, Maximum Performance

Today’s product update includes the availability of Galtronics’ broadband antenna PEAR S4935, a single-port vertically-polarized antenna covering a broad range of frequencies from 698MHz up to 6000MHz, and PEAR S4934, a very small form factor antenna covering 1.7GHz up to 6GHz. The engineered radiation patterns of these antennas are optimized for in-building ceiling mount applications. This allows the antenna to be installed above the ceiling or through the ceiling without degradation in performance.

Unique Performance and Installation Flexibility

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A critical component of the PEAR antenna design is the shape of the omnidirectional pattern, which delivers the maximum in-building RF signal propagation.

With PEAR, systems integrators have the flexibility to mount the antennas above, through or below false ceilings to adhere to aesthetic requirements from building owners wanting to conceal the antennas or limit their visibility from public view. Galtronics offers the option of a 'pushed through' mounting installation, which is quicker and conceals the antenna with only the nose protruding through the ceiling tile, making the antenna appear much smaller in size.

Further information on the Galtronics PEAR antennas for in-building DAS is available at http://www.antennas.galtronics.com/In-Building_DAS_Antennas.php [1]. Supporting documents include a PEAR Product Line Overview with details on expected gain and broadband coverage for each of the five PEAR antennas.

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[1] http://www.antennas.galtronics.com/In-Building_DAS_Antennas.php