Harxon Introduces 4-in-1 X-Survey Antenna for RTK Applications

Normal RTK integration is based on the installation of separate antennas, which easily leads to reduced efficiency because of electromagnetic interference (EM). The conventional antenna installation also results in unstable machine performance due to the problems of system compatibility between different antennas. Harxon has overcome these difficulties by developing a solution that provides both stable performance and high integration with its integrated X-Survey antenna. This is a unique 4-in-1 OEM antenna for both navigation and communication in surveying applications.

The high-gain and wide beam-width GNSS antenna features multi-point feeding technology, ensuring a high phase centre stability and positioning accuracy. Moreover, the array-arranged 4G antennas enable more stable signals and longer communication distances in 360 degrees, increasing the overall machine efficiency over conventional antennas.

RTK system compatibility

The X-Survey antenna provides high isolation among each antenna to prevent self-interference, thus improving the RTK system compatibility. RF coaxial connectors are designed for plug-and-use, keeping efficiency high and lowering the impact of EMI. The antenna LNA features an excellent out-of-band rejection performance, which can also suppress the EMI, providing reliable GNSS signals.

The unique structure design simplifies the RTK integration and minimises the overall machine dimensions in order to offer system integrators high-efficiency performance of navigation and communication in surveying and precision-agriculture applications.

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