



103 Randall Drive
Waterloo, Ontario
Canada N2V 1C5

+1 (519) 884-5142
info@ndigital.com
www.ndigital.com

Atraxa Fact Sheet

For more information, contact: Darian Butt | Tel: +1 (519) 884-5142 x303 | dbutt@ndigital.com

What is Atraxa?	Atraxa is an electromagnetic sensor-fusion tracking platform that embeds into OEM headsets and handheld peripherals to provide wireless 6DOF motion tracking for extended-reality (XR) platforms.
What does Atraxa do?	Atraxa tracks the position and orientation of the headset and peripherals, delivering tracking data that is used to localize and visualize motion within the virtual interface. Tracking occurs without the use of external optical cameras or infrared markers.
Who is Atraxa for?	Atraxa is designed for XR manufacturers that require accurate, low-latency 6DOF tracking of headsets and peripherals that's free of occlusions, wires, and jitter.
What problem does Atraxa solve?	Many XR platforms require a clear line of sight to external optical cameras or infrared markers to track the position of the headset and peripherals. Breaking the line of sight disrupts motion tracking, which disrupts the user's immersive experience. Atraxa is based on electromagnetic sensor-fusion technology. It provides unobstructed positional tracking without line-of-sight constraints.
How does Atraxa work?	Atraxa combines electromagnetic (EM) and inertial tracking technologies into one platform to provide position and orientation data. Atraxa's embeddable tracker and receiver modules work together to establish the tracking volume; measure the magnetic field; calculate 6DOF pose data; and serve fused or unfused tracking data to the host OEM application.
How does Atraxa benefit the OEM's customers?	Wireless, unobstructed 6DOF motion tracking can provide the following benefits to users of XR platforms: unrestricted/natural gestures, 360° movement, no discontinuities, 1-to-1 movement, smooth trajectories, precise motion control.
Who makes Atraxa?	Atraxa is manufactured by NDI (Northern Digital Inc.), who are headquartered in Waterloo, Canada.
Is this technology new?	Yes and no. Individually, electromagnetic and inertial tracking technologies have been available for over 20 years. However, fusing these technologies together for integration into XR platforms is new; in that regard, Atraxa is one of the first wireless 6DOF tracking solutions of its kind.
When will Atraxa be available?	The Atraxa Developer Kit will be available in 2019.