

## **Novel Digital Radio - FM Synchronization Mechanism for In-Car Multi-Standard Receivers from EtherWaves**

*Seamless switching between DAB, DAB+, T-DMB, DRM and FM reception for high-class SDR (Software Defined Radio) in-car receivers*

LAS VEGAS, CES 2010--January 8, 2010-- EtherWaves, the industry leader for Digital Radio Intellectual Property (IP) for cars, announced today the availability of a new capability of its ClearSignal multi-standard solution for Digital Radio. The patented SDR (Software Defined Radio) software module enables an incredible smooth transition between alternative sources of an audio programme.

This feature is particularly attractive for in-car receivers, which usually experience a constantly varying coverage. When the reception quality deteriorates, the receiver must be able to identify and intelligently switch the reception from a transmitter whose reception became marginal, to another transmitter of the same station and with a better reception. The two transmitters might be identical, but they might also have different parameters, or even use different broadcast systems. For example, the car might travel from a DAB reception area to a DAB+ area and thus need to switch between the two systems, or might need to switch from Digital Radio reception to FM reception - or the other way around. When such switching occurs, ordinary Digital Radio receivers that are able to do the switching usually make transient echo-like noises or "clicks". However, in receivers powered by ClearSignal and equipped with the new FM Synchronization mechanism, the transition is perfectly smooth, as expected from a high-class infotainment system. Furthermore, when there is more than one alternative, the new mechanism has a sophisticated decision algorithm; another algorithm decides on the optimal moment of switching, based on various transmission parameters and on the reception history.

"The capability of the new FM synchronization feature to integrate fast and smooth in ClearSignal is yet an additional proof of the SDR suitability for the automotive industry", said Marius Gafen, Vice President of Product Marketing at EtherWaves. "Such new features and developments can be added immediately whenever the market demands them, without impacting the hardware, and that's only one the reasons why the modern automotive industry likes the SDR concept", he added.

Current ClearSignal solution includes support for dual DAB, DAB+, T-DMB and DRM, audio and data – both in single-tuner and dual-tuner options.

For more information, please visit us at <http://www.etherwaves.com>