



**Press Release**

**EtherWaves newly released DAB+/ DAB software receiver version for multicore Linux also supports TPEG**

*The new version of the Software Defined Radio (SDR) based ClearSignal supports novel services such as TPEG, DL+ and EPM, while executing across multi cores of Linux based GENIVI and Android architectures*

TEL-AVIV, ISRAEL—September 18, 2012-- EtherWaves, an acknowledged industry leader of Digital Radio software Intellectual Property (IP) for cars and SoC, today announced the new multicore Linux version of its ClearSignal software based DAB/DAB+/DMB solution, to add support for the novel TPEG, DL+, EPM and other advanced decoding services. With the imminent use on DAB+ as a platform for these services, the new version bring the fastest and most cost-effective path to sophisticated driving traffic data for digital radio manufacturers. And because of its multicore architecture, the new ClearSignal version provides enhanced processing power and resource utilization by taking advantage of the parallel processing found in the new media processors, with the result being reduced constraints of the ports and busses of today advanced DAB+/DMB receivers.

The first integration is available on a standard ARM core, such as those used in NVIDIA's Tegra, running a Linux-based OS, and using an off-the-shelf digital tuner from Maxim. Porting the same capability to different processors and tuners is a straightforward task, due to ClearSignal toolbox design approach. The new TPEG version implements all the Digital Radio broadcasting standards supported by ClearSignal - DAB, DAB+, T DMB and DRM, while exhibiting its proved and renown stability and high performance.

TPEG (Transport Protocol Experts Group) is one of technologies of the new generation of traffic and travel information services that are distributed via digital channels such as the internet, cell phones, and recently digital radio. The new ClearSignal version is well fit and bound to immediately appeal to the manufacturers of European cars, following ITS Directive from the EC and with TPEG over DAB+ that recently received a huge boost from the German Public Broadcaster ARD and the German automobile club ADAC.

"The quick development of our ClearSignal multicore Linux version shows again the clear advantages of the Software Defined Radio approach, which leads itself to the fastest and most cost-effective integration in today's vehicles", said Ben Gagin, EtherWaves' CEO. "It follows our company strategy of being one of the leading contributors to the advance of the digital radio towards the switch from analogue to digital and promotes EtherWaves' leadership as the solution of choice in the digital radio automotive and SoC receiver markets".

EtherWaves new DAB+/ DAB receiver software for multicore Linux and TPEG

The DAB+/DMB stack has evolved in recent years beyond audio receiver as a data bearer for automotive data applications that integrate with other GPS, cell-phone and other infotainment sub-systems. Data applications have diverse requirements from the SDR platform and functions that used discrete hardware components, and now need to coexist as software components over the modern multi-core processors. The new ClearSignal multicore Linux version fits exactly this evolution of the automotive and SoC markets, with software rather than hardware-defined infotainment systems for a flexible, future proof, and user-friendly experience.

The new ClearSignal multicore Linux version is available for licensing from EtherWaves, who also provides Digital Radio integration services for fast and cost effective implementation.

### **About ClearSignal**

ClearSignal is a comprehensive software package, fully documented and accompanied by training, support, ATP and test materials. Previous versions of ClearSignal have been used by Tier 1 automotive infotainment makers and deployed in high-end German automotive cars.

The main ClearSignal features are:

- High scalability, such as:
  - o simultaneous Decoding of Audio and Data services
  - o dual-tuner, capable of decoding simultaneously two similar or different systems, for example DAB+ and DRM (or DMB), or decoding audio and data
  - o decoding DRM with background DAB
- Seamless audio switch-over
  - o when travelling between regions with different Digital Radio standards
  - o when switching between different standards - FM Synchronization
- Complete package, fully documented and accompanied by training, support, ATP and test materials.

With the rapid introduction of powerful processors in smartphones and automotive head-units, ClearSignal is committed to move forward on the roadmap for reducing customers' system costs and financial risks involved in maintaining stocks of dedicated ASICs.

Previous versions of ClearSignal have been used by Tier 1 automotive infotainment makers, deployed in high-end German and Italian automotive cars and used by innovative SoC manufacturers.

### **About EtherWaves**

EtherWaves develops and licenses Intellectual Property (IP) for Digital Radio receivers, focusing on the Automotive OEM and SoC market. Designed as pure software, EtherWaves IP enables the use of the powerful Software Defined Radio approach in the automotive and SOC markets for long term availability.

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In SOC designs, it enables a flexible mix of cores and silicon blocks, for fast development cycle, as well as low power consumption and cost-effective for the end-product. The company's ClearSignal technology enables high-quality, multi-standard Digital Broadcast reception. EtherWaves is a privately held company with headquarters in Israel. For more information, please visit us at [www.etherwaves.com](http://www.etherwaves.com)

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