

Press release

Paris, 23 February 2017

Amarisoft will demonstrate v-RAN and NB-IoT in action, based on its 100% software LTE suite during Mobile World Congress 2017 – stand 5K13.

Two software demonstrations will be showcased at Amarisoft booth: a 100% software based v-RAN eNodeB connected to a 2x20W Ethernet RRH and the world first embedded NB-IoT softmodem!

Live demonstrations will take place on stand 5K13, hall 5. Come and have a chat with our team about our solutions and your LTE projects.

Demo 1 description: 100% software based v-RAN eNodeB connected to an Ethernet RRH

The demonstration will show our 100% software eNodeB in action, using an Intel based server from Advantech connected to an Ethernet RRH from AW2S.

The eNodeB is based the 3GPP release 13 standard including features for IoT (NB-IoT and Category M1), VoLTE, and Carrier Aggregation.

Having the same LTE stack from the R&D unit labs up to the macro base station is an unseen situation before. This opens a new era of possibilities and densification for operators.

The Ethernet RRH is definitely an example of what open base stations allow. Here's a short description:

- Band 40 - 2x20W MIMO
- Radio over Ethernet on RJ45 cat 5 cable
- Compliant ETSI TS 136 104 Release 13

Demo 2 description: World first embedded NB-IoT softmodem

As an innovative leader in software, Amarisoft made an NB-IoT softmodem prototype based on standard and generic chips. We want to prove how flexible the 100% software approach can be, even in the "more embedded" world. Here are some advantages of this approach:

- Software-only NB-IoT solution (PHY and L1/L2/L3 in software). Other IoT protocols can be supported through software upgrade.
- Works with any RF interface supporting I/Q samples. The current RF interface has the following capabilities:
 - Supported frequencies: 370-510 MHz, 779-1020 MHz, 2400-2483.5 MHz
 - LTE bands: 5, 6, 8, 18, 19, 20, 26, 27, 31
- Currently works with Cortex M7 class CPUs
- Open software stack with TCP/IP stack and HTTP XHR API
- User application can run on the same CPU. The NB-IoT modem is typically active during 1% of the time, so the full CPU power is available during 99% of the time. We plan to open the software stack to allow users to include their own application into it. This avoids the addition of an external CPU to control it.
- Works on fully documented hardware (no NDA to sign, good documentations from main MCU vendors, multi-source is guaranteed)

Press contact

Catherine Delahaye, Office Director – sales@amarisoft.com

About Amarisoft

Amarisoft is a software company dedicated to LTE 4G (5G). Our world unique LTE software suite runs on generic PC hardware (including PHY layer). Our LTE technology accelerates the process of building products like eNodeB, Core network, NB-IoT and v-RAN based solutions.

From research, proof-of-concept, testing, product manufacturing, industrialization and maintenance, our ecosystem of partners and integrators guarantees success to your wireless telecoms project.

With more than 200 customers all around the globe, our ecosystem is growing at a fast pace. We address a wide range of customers: telecoms equipment manufacturers, operators, telecoms integrators, government agencies, universities and R&D labs.

For more information, see www.amarisoft.com and follow us on  and 