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Riot Micro and Amarisoft Demonstrate NB-IoT/LTE-M Module Reference Design at Mobile World Congress

Ultra low-power module enables 10-year battery life in NB-IoT user equipment

MOBILE WORLD CONGRESS, Barcelona, Spain – February 26, 2018 – Riot Micro, a start-up providing purpose-built silicon for IoT systems, and telecom software vendor Amarisoft will demonstrate a low-power dual-mode NB-IoT and LTE-M module reference design at Mobile World Congress in Barcelona this week (booth H5-K13). The demonstration will feature Riot's RM1000 module design and Amarisoft's AMARI LTE 100 software running on a compact software defined radio (SDR) platform.

Riot's module reference design is based on the RM1000 NB-IoT baseband modem and integrates all of the circuitry required to implement NB-IoT and LTE-M into a low cost 18x23mm form factor. Supporting 17 global bands, modules can be built for IoT device OEMs that need a single-SKU design for deployment on global networks. Modules based on the design will feature an ultra-low current in eDRX mode, supporting a battery life in excess of 10 years, making it ideal for a variety of applications for the asset tracking, smart city, smart home and metering markets.

"We are excited to showcase the reliability and small form factor of the Amarisoft NB-IoT network connected to the Riot Micro module at MWC. Interoperability testing began a few months ago, and we closely collaborated to fine tune the NB-IoT software eNodeB," said Amarisoft CEO Franck Spinelli. "The demonstration highlights how both Riot's silicon and Amarisoft's LTE test solutions are ahead of the curve in terms of supporting the evolving standards and application requirements of the global IoT market."

The AMARI LTE 100 is a software suite including eNB, ePC, eMBMS gateway and IMS test server. The software allows end-to-end communication from up to 1000 commercial user devices. AMARI software components are 3GPP release 13 compliant, and are easy to install and configure through JSON config files. The system is ready for automation and administration using Amarisoft's WebSocket remote API.

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"Riot Micro is at the forefront of NB-IoT technology and required a testing partner equally advanced. With SDR and software flexibility, as well as exceptional customer support, Amarisoft stood apart in meeting this need," said Peter Wong, CEO of Riot Micro. "The high quality of their software enabled quick validation of the interoperability of the RM1000 to address the needs of global IoT networks."

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About Riot Micro
Riot Micro is a start-up company with headquarters in Vancouver, British Columbia. The company designs purpose-built silicon for manufacturers and suppliers of applications and devices on the forefront of the Internet of Things.

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 350 customers all around the globe, our community 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.

Amarisoft was the winner of "Télécom Track" by Orange Fab, season 1, and is a member of the TIP Ecosystem Accelerator Centers (TEACs).

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