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20060925_PR_OneRFTechnology

One RF Technology develops 'Mesh lite'

One RF Technology, a company focused on the design and development of innovative and reliable radio solutions for wireless data transmission systems, is working on a new version of its standard in-house firmware. This new version of the firmware has a working name 'Mesh lite'. The company is using its experience from the ZigBee protocol to implement mesh functionality into the standard 868 MHz products. The new version of the embedded firmware will be available in the company RF solutions in the end of 2006.

One RF Technology strives to offer its customers the latest RF know-how available on the market. The company is using its experience from the ZigBee protocol to implement mesh functionality into its standard in-house firmware. The purpose behind this new updated version of the standard communications protocol, with a working name 'Mesh lite', is to offer the customers mesh functionality on the license free 868 MHz ISM frequency band without increasing the cost of the solution.

Mesh functionality in the communications protocol allows the design of a network, wherein each node has the ability to communicate with every other node. A mesh network is reliable and offers redundancy. If one node can no longer operate, the others can still continue to communicate with each other, either directly or through one or more intermediate nodes.

The new version of the in-house firmware, Mesh lite, will be implemented in the TinyOne Lite, TinyOne Plus and TinyOne Pro products. A 16 KB microcontroller will be used to ensure the low cost of the radio module. TinyOne radio solutions with the new Mesh lite firmware will be available as OEM RF modules or complete radio modems.

TinyOne Lite, still under development, and TinyOne Plus will be additional members of the successful TinyOne product family. TinyOne Lite and TinyOne Plus will be available for purchase in the end of 2006.

Mesh lite will also be available for customized battery operated low-power applications. The new version of the in-house firmware will be available in the end of 2006.

More information on the One RF Technology in-house firmware can be found on www.one-rf.com/en/firmware.html.

About One RF Technology (www.one-rf.com)

One RF Technology is a high-tech company focused on designing and developing innovative and reliable radio solutions for data transmission systems. The company has its headquarters in Sophia Antipolis (France), a Branch office in Villach (Austria) and multiple distributors around Europe. One RF Technology offers its customers a wide range of OEM RF modules and radio modems that can be operated in the license free 433 MHz, 868 MHz, 915 MHz and 2.4 GHz ISM frequency bands. The company offers a custom RF design service – from concept to manufacturing – to design radio solution on behalf of its customers. One RF Technology is a member of the ZigBee Alliance and it is currently focusing on developing its ZigBee solution.

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