Advantech Introduces the Scalable i.MX 8 Qseven Module ROM-7720 at Embedded World, 2018

2nd of March, 2018, Germany—At Embedded World 2018, Advantech, a leader of the global industrial computing market, has introduced its NXP i.MX 8 QuadMax Q7 v2.1-compliant computer-on-module, the ROM-7720, which is designed for graphics-intensive IoT applications. Answering the market needs of graphics computing in IoT edge nodes, Advantech has collaborated with NXP to develop this new Qseven module, aiming to realize multi-display human–machine interfaces, advanced driver assistance systems, robotic vision, precision advertising systems, and medical image processing.

The ROM-7720 is powered by the i.MX 8 QuadMax processor, a multi-core SoC that is based on the Arm® Cortex®-A72 and Cortex®-A53 processors and the Cortex®-M4 big.LITTLE structure, featuring high-performance computing and low-power processing. Additionally, the dual-core GC7000 GPU delivers high-quality 3D graphics and 4K decoder. The ROM-7720 is designed as a standard Qseven 2.1-complaint platform to ensure that customers benefit from the flexibile interface design and improved time-to-market.

The newly released ROM-7720 supports both Yocto Linux and Android OS, and it has Advantech's WISE-PaaS/Edgesense built in, providing support for RMM and OTA features, thus enabling remote monitoring and management and over-the-air updates for IoT and industrial IoT applications. Furthermore, Advantech will continue to cooperate with its Embedded Linux and Android Alliance (ELAA) partners to provide complete ROM-7720 software offerings, including featured OS as well as security and image recognition technologies, the aim of which is to facilitate customers' adoption of the ROM-7720 and realize all the merits of the i.MX 8 processor.

ROM-7720's key features include the following:

- NXP i.MX 8 QuadMax 8-Core Processor with 2 x Cortex®-A72, 4 x Cortex®-A53, and 2 x Cortex®-M4F
- 64-bit LPDDR4 (2 GB/4 GB)
- Onboard QSPI Flash (256 MB), eMMC Flash (8 GB)
- 4K h.265 decoder, HD h.264 encoder
- 3 x USB 3.0 with OTG
- Multi-system capacity

The ROM-7720 will be launched in 2018/Q4. A live demo is now available at **Embedded World 2018** at the **NXP booth (Hall 4A/4A-220)** and the **Advantech booth (Hall 2/2-138).**

For more information about Advantech's Arm®-based computing solutions, please visit: http://risc.advantech.com
For more information about Embedded Linux and Android Alliance (ELAA), please visit:

http://www.elaa-platform.org

About Embedded-IoT Group

As a global leader of the embedded computing market, Advantech's Embedded-IoT Group offers a wide range of embedded design-in services and provides diverse integrated IoT solutions that assist customers with IoT adoption while minimizing uncertainty and risk. Advantech's integrated IoT solutions include sensor nodes, gateways, edge intelligence servers, and the WISE-PaaS IoT software platform. embedded-IoT.advantech.com

About Advantech

Founded in 1983, Advantech is a leader in providing trusted, innovative products, services, and solutions. Advantech offers comprehensive system integration, hardware, software, customer-centric design services, embedded systems, automation products, and global logistics support. We cooperate closely with our partners to help provide complete solutions for a wide array of applications across a range of industries. Our mission is to enable an intelligent planet with automation and embedded computing products and solutions that empower the development of smarter working and living. With Advantech, there is no limit to the applications and innovations our products make possible. (Corporate Website: www.advantech.com).