New Intel Atom x6000E Series (Picture: Intel Atom)

Product Announcement: Syslogic Embedded Systems Based on Intel Atom x6000E Processors

Embedded Specialist Syslogic announces new industrial computers based on Intel Atom x6000E processors (Elkhart Lake) for early 2021. Syslogic is planning embedded computers specifically designed for vehicle, IoT, and railroad applications.

Waldshut-Tiengen, October 8, 2020

At the end of September, Intel Atom introduced the long awaited x6000E series (Elkhart Lake). The new processor series succeeds the E3900 series (Apollo Lake) presented in 2016. With its 10 nm technology, the Intel Atom x6000E series paves the way for future embedded applications.

Fit for future edge applications

Compared to its predecessor, the x6000E series provides up to twice the graphics performance depending on the version. According to Intel Atom, multi-thread performance (i.e. simultaneous use of all processor cores) is also said to have increased by up to 50 percent compared to its predecessor – despite maintaining similarly low power consumption. Depending on the version, the new processors work with two or four processor cores and support real-time applications with time-sensitive networking (TSN).

Up to 32 GB memory with integrated Error Correcting Code (ECC) is available. Other innovations include integration of CAN FD in the processor. Secure Boot SGX is also supported. Intel also offers Functional Safety (FuSa) according to ISO-13849 requirements.

Elkhart Lake serves as a basis for new Syslogic embedded computers

As a leading embedded computer supplier, Syslogic had the opportunity to integrate the new processor generation into its carrier boards early on. Syslogic is one of few European companies that manufactures its boards on its own assembly lines. The first prototypes of the new carrier boards are already being tested extensively. Syslogic plans on presenting the x6000E-based embedded computers in Q1 of 2021.

Michael Jung, the product manager in charge of the new industrial computers, says: "We will launch a range of new products that will be suitable for areas such as mobile computing, rugged computing, and railways." Like all Syslogic embedded systems, the new ones are designed for continuous operation under extreme conditions. According to Jung, versions for the expanded temperature range from -40 to +85 degrees Celsius (-40 °F to 185 °F) are planned.

With the x6000E-based industrial computers, Syslogic will offer the ideal hardware platform for future IoT (Internet of Things) applications. The goal is to provide existing customers with the new product generation. Moreover, Syslogic intends to further expand its market position, particularly in the mobile and rugged computing sector.

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