The Ural Architectural Laboratory (Ekaterinburg) has developed a Digital Signal Processor with the multicellular design. The processor could be used in GLONASS receivers, TV receivers and in other devices including hearing aids.

The new multicellular design, unlike conventional core processors, provides the processing of the whole ‘sentences’ (rather than separate signals) without RAM using. The Russian engineers say it could quintuple the processor’s throughput alongside with the tenfold decrease in power consumption.

UAL intends to finish the development and launch the production of the new processors at Mikron factory in Zelenograd when it puts a 90-nanometer line into operation (scheduled for 2011). Asia is also considered for the processor production.

By now 300 million rbl have been invested in the processor development, key investors being the Ekaterinburg-based Mikron company and the ‘Innovative technologies’ regional fund (Sverdlovsk Region). Symbion Capital venture fund (Denmark) and the Fund for Assistance in the Development of Small Scientific and Technical Business (Bortnik’s Fund) also acted as investors. It is said the launch of the multicellular processor production requires 750 million rbl more.

To rise the necessary funds, the newly-formed Multiklet Company is to issue shares for the private subscription. Multiklet is the holder of all the UAL’s know-how.

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