

MENTOR GRAPHICS PYXIS PLATFORM AND PDK AUTOMATION PROCESS ADOPTED

A leader in electronic design automation, today announced that MagnaChip Semiconductor Corporation (“MagnaChip”) has adopted the Pyxis(R) custom IC design platform and the Mentor(R) process design kit (PDK) automation process. MagnaChip is a leading designer and manufacturer of analog and mixed-signal semiconductor products for high-volume consumer applications.

With significant growth in the customer base, MagnaChip added the Mentor Graphics(R) analog mixed-signal (AMS) design and verification solution that could handle a high level of mixed-signal complexity, different levels of design abstraction, and support multiple CAD tools in an integrated, unified environment. A key desired attribute was a reliable process for automating the creation of PDKs that could be easily inserted into their AMS design and verification flow.

“Pyxis expands our ability to work with multiple vendor tools with a proven process for automating the creation of PDKs, which is very important to our customers.

With Mentor tools and their automated PDK creation process, MagnaChip is better positioned to serve broader customer base and expand businesses for both MagnaChip and Mentor Graphics,” said Taejong Lee, EVP and General Manager of MagnaChip’s Corporate Engineering Division.

The basic design components for analog mixed-signal IC design are delivered in the form of PDKs. Key components of the PDK are the fundamental building blocks for designing custom circuitry: transistors, resistors, capacitors, diodes, inductors, etc. PDKs have various models to represent these devices; functional verification models for use in simulation, symbols for use in schematics, parameterized and fixed geometries for use in layout and physical rules for use in physical verification.

“MagnaChip is a key partner of the deep submicron division of Mentor and one whose products have a growing importance in the marketplace,” said Robert Hum, vice president and general manager, DSM division, Mentor. “We are delighted that they have chosen the Pyxis custom IC design platform and our automated PDK tools and flow.”

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