



Arteris FlexNoC® Licensed by Canaan Creative for Artificial Intelligence ASICs

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Semiconductor interconnect IP enables power-efficient processing in semi-autonomous aerial imaging devices

CAMPBELL, Calif. —May 1, 2018 — Arteris IP, the innovative supplier of silicon-proven commercial [network-on-chip \(NoC\) interconnect](#) intellectual property, today announced that Canaan Creative Co., Ltd., has licensed [Arteris FlexNoC interconnect IP](#) as the on-chip communications backbone of their next generation artificial intelligence (AI) ASIC.

The Canaan design team uses Arteris FlexNoC interconnect IP to manage communications between multiple on-chip hardware accelerators. They chose Arteris IP FlexNoC interconnect for their AI SoC because it:

1. Enables **low power consumption** by implementing [advanced clock gating and power management](#). Use of Arteris IP interconnect allows reduced power consumption for chips using multiple processing elements.
2. Allows **high bandwidth** and **low latency** communications between processing elements for artificial intelligence algorithms by using FlexNoC's advanced [end-to-end quality-of-service \(QoS\)](#)
3. Increases **system reliability** and **security** by taking advantage of the reporting and data protection capabilities that are integrated into the FlexNoC technology.

"Arteris FlexNoC interconnect IP allows us to create much more power-efficient designs while efficiently connecting novel hardware processing elements that accelerate artificial intelligence algorithms," said Mark Wu, VP of Technology at Canaan Creative. "Arteris interconnect IP is a key ingredient for creating the new state-of-the-art in power-efficient AI hardware."

"We are honored that Canaan Creative has chosen Arteris IP as the on-chip interconnect for their next-generation artificial intelligence ASICs," said K. Charles Janac, President and CEO of Arteris IP. "Canaan's choice is proof of the energy efficiency and performance benefits our interconnect technology brings to complex systems which rely on custom hardware accelerators to speed AI and custom algorithm processing."

About Arteris IP

Arteris IP provides [network-on-chip \(NoC\) interconnect IP](#) to accelerate system-on-chip (SoC) semiconductor assembly for a wide range of applications from automobiles to mobile phones, IoT, cameras, SSD controllers, and servers for customers such as [Samsung](#), [Huawei / HiSilicon](#), [Mobileye](#) (Intel), [Altera](#) (Intel), and [Texas Instruments](#). Arteris IP products include the [Ncore](#) cache coherent and [FlexNoC](#) non-coherent interconnect IP, as well as optional [Resilience Package \(ISO 26262 functional safety\)](#) and [PIANO automated timing closure](#) capabilities. Customer results obtained by using the Arteris IP product line include lower power, higher performance, more efficient design reuse and faster SoC development, leading to lower development and production costs. For more information, visit www.arteris.com or find us on LinkedIn at <https://www.linkedin.com/company/arteris>.

About Canaan Creative

Founded in 2013, Canaan (Canaan Creative) is the worldwide leader in designing ASIC microprocessor solutions. Canaan products are sold globally. Canaan continues to innovate by producing custom designed ASIC microprocessors. With the efforts of its highly skilled development team, Canaan strives to bring in new thoughts to the area of advanced technology ASIC processors and beyond.

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