



## **CIG Delivers Arm based O-RAN DU Platform built on NXP 5G Layerscape Access Processors**

### **Highlights**

- CIG created a new, cost-effective Arm v8 based DU utilizing NXP's high performance Layerscape Access Processor for flexible, scalable O-RAN compliant 5G NR processing.

**Santa Clara, CA, USA** – October 18, 2019 – Cambridge Industries Group (CIG) today announced a new Distributed Unit product based on NXP® Semiconductor's latest Layerscape® multicore processor. This new system O-DU SC-60 is a fully integrated telecom grade hardware product targeted at 3GPP 5G NR sub-6GHz deployments. The CIG SC-60 is a break-through in O-RAN compliant open hardware product ready for OEM integration.

"CIG has a long history of serving high quality ICT products to global telecom markets" said Haibo Zhao, CTO of CIG. "The collaboration with NXP merges NXP's strong capabilities in wireless communications and edge compute with CIG's proven expertise in developing O-RAN compliant solutions for carriers worldwide. Our joint solutions will support rapid commercial deployment and enablement with a pathway for even higher performance and integration."

The new 5G NR DU SC-60 enables users to deploy DU platforms supporting popular 7-2x DU/RU splits and multi-sector, 2T/2R to 4T/4R up to 8 sectors configurations depending on channel width. The SC-60 also allows users the flexibility to scale performance to 128 x O-RUs and an integrated CU option based on the modular NXP Layerscape Access Edge architecture. SC-60 delivers multiple 25GbE interfaces to the O-RAN fronthaul.

"CIG has proven they can deliver both high performance scaling and Arm® based O-RAN with the NXP Layerscape Access products. They have built a strong CU/DU option which disrupts conventional approaches," said Nikolay Guenov, senior marketing director with NXP's Digital Networking business unit. "CIG and NXP will demonstrate and promote this powerful solution through 2019 and 2020."



## **NXP Access Edge Solutions Powering The New 5G NR Small Cell Portfolio**

- NXP's O-RAN Alliance compliant 5G Access Edge portfolio enables open and flexible solutions and addresses Small Cell, Repeaters, Fixed Wireless (CPEs) and also proprietary FWA. The software-defined Layerscape processors provide freedom from proprietary vendors, expensive FPGAs and specification or network changes. The Layerscape Access LA1200 processor family targets high speed 5G NR mmWave and/or higher density sub-6GHz access edge applications. This Layerscape Access family delivers unprecedented programmability to enable flexible split options, configurations for different network deployment scenarios, standards updates, protocol changes and value-added or proprietary development, down to the PHY level.
- The scalable Layerscape LX2160A multi-core communications processor combines the low power of FinFET process technology, sixteen Arm® Cortex®-A72 cores with datapath acceleration optimized for L2/3 packet processing, security offload, and robust traffic management and quality of service.

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### **About CIG**

CIG Shanghai Co., Ltd (CIG) is a holding company with subsidiaries in China, USA, Japan, Malaysia and Germany. CIG was listed in Shanghai Stock Exchange in 2017.

CIG has 4 business units: Broadband Business Unit, Wireless Business Unit, Photonics Business Unit and JDM Business Unit.

As its core competence, CIG has a “two-engine drive” business model, which provides high quality R&D and state-of-the-art manufacturing collaborative services to the ICT industry. There are 850 R&D engineers and over 2000 manufacturing workers in CIG. CIG also collaborates with CMs located in Thailand, Malaysia and Japan to manufacture certain products. Millions of CIG products have been shipped and deployed worldwide each year.

Learn more about CIG and connect with us on Twitter: @CIGUSA2.

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