

EJL Wireless Research Analyzes Samsung Networks 5G NR CDU50

Latest DNA-I Teardown Report Fourth in Series on 5G NR Baseband Units; Architecture Provides Insights into Samsung's Close Partnership with Marvell Technology

HALF MOON BAY, CA, UNITED STATES, July 13, 2022 /EINPresswire.com/ -- EJL Wireless Research is excited to announce a new report to its Design Analysis-Infrastructure (DNA-I) research series. The DNA-I series focuses on radio access network (RAN) equipment teardown reports. These reports provide invaluable insight into the design philosophies and architectures for the major radio equipment OEMs as well as a full bill of materials (BOM) for major semiconductor integrated circuit (IC) and passive component products and suppliers.



Earl Lum, President EJL Wireless Research

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The 5G NR CDU50 gNodeB illustrates Samsung's close partnership with Marvell Technology, Inc.”

Earl J. Lum, President, EJL Wireless Research

We have previously released DNA reports on 5G NR digital baseband units from Ericsson, Nokia Networks, and ZTE Corporation. The new report is on a [Samsung Networks 5G NR digital baseband unit \(BBU\)](#), the CDU50 (Cabinet-type Digital Uni). The CDU50 can be configured with up to three channel management cards (GCx), each of which supports a combination of up to 12 CPRI/eCPRI remote radio units (RRU) as well as three eCPRI massive MIMO units (MMU) in

FR1 and FR2 frequency bands, depending on the number of cells, channel bandwidth, number of layers and throughput requirements. The CDU50 is the first true 5G NR digital baseband system from Samsung Networks, replacing the prior 4G LTE CDU30 product that only supported mixed-mode FDD/TDD-LTE.

The CDU50 design continues Samsung's product philosophy for its digital baseband units to be a single 2U 19" rack-mounted indoor unit with upgradable hardware cards, either the main

switch/transport card (GMx) or the channel management cards (GCx). It is also a standalone gNodeB that includes the distributed unit (DU) and centralized unit (CU) functions in a single box and can be deployed in existing mobile networks using a distributed radio access network topology (D-RAN).

“The 5G NR CDU50 gNodeB illustrates Samsung’s close partnership with [Marvell Technology, Inc.](#) and offers insights into the architecture for the switch transport L2/L3 functions as well as the L1 modem architecture within the digital unit and how future products supporting the separation of the distributed unit (DU) and centralized unit (CU) will be designed,” says Lum.

About EJL Wireless Research

EJL Wireless Research provides proprietary, accurate, and cutting-edge market analysis and consulting services on the wireless technology ecosystem. The firm's wireless infrastructure research focuses on vertical elements of the wireless ecosystem including telecommunication standards evolution, global and regional regulatory issues, spectrum availability, mobile operators, and mobile infrastructure equipment vendors. In addition, the firm provides analysis across horizontal technology suppliers including RF semiconductor materials, RF semiconductor/components, and RF subsystems. Our goal is to provide our clients with critical market analysis and information.

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EJL Wireless Research is managed by Earl Lum. Mr. Lum has over 25 years of experience within the wireless industry including 8 years as an Equity Research Analyst on Wall Street. The company is currently headquartered in Half Moon Bay, CA. For more information about EJL Wireless Research, please visit the company’s website at www.ejlwireless.com.

Earl J. Lum

EJL Wireless Research LLC

+1 650-430-2221

elum@ejlwireless.com

Visit us on social media:

[Twitter](#)



Earl J. Lum
+1-650-430-2221
elum@ejlwireless.com

Samsung Electronics Co., Ltd.
5G NR Digital BBU
CDU50
July 2022



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Product Code: DNA-I-2022-001

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