


THE DIGITAL BRIDGE OF RADIO

5G
PRODUCTS

i2i 5G BASEBAND UNIT

5G BBU

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 **i2i Systems**
innovation to integration

About i2i Systems

i2i Systems is an international information technology company that specializes in developing innovative ideas and solutions. With its highly experienced team in the Telecommunications industry it offers a diverse variety of products in Telco OSS/BSS domains, as well as 5G network solutions.

i2i Systems delivers Next Generation Converged Revenue Management solutions enabling CSPs to unlock new business models, mitigate competition, reduce costs, and quickly monetize new use cases. This is being achieved through systems that are fully convergent, cloud-native, API-first, interoperable, low-code / no-code and modular. The offerings are highly scalable and support subscriber bases ranging from tens of thousands to tens of millions, harmoniously. i2i Systems improves its experience and skills by adapting new technologies and investing in research and development to provide best quality, efficient and visionary products to its customers. In accordance with its disruptive vision, i2i Systems further invests in 5G core-network, offering an end-to-end integrated cloud-based BSS and Network solution for optimizing and converging Service Providers IT and Network landscape thus increasing efficiency and enabling new revenue streams.

Customers - Telecom (CSP)



Partners



i2i BASEBAND UNIT (BBU)

POWERFUL AND FLEXIBLE NEW RADIO SOLUTIONS

i2i Systems provides baseband solutions which are more flexible and powerful compared to the standard products in the market. We provide a baseline for your future business needs as you move into 5G. With its high integration capabilities, our 5G solutions enable you to improve your network infrastructure to adjust to the changing requirements.



i2i 5G BBU supports MU-MIMO, carrier aggregation and beamforming for an efficient capacity and cell throughput. It supports both SA with 5G CN and NSA deployment where LTE and 5G cooperate together to effectively and efficiently protect the operator investments.

All baseband features are fully 3GPP and ORAN compliant and support standard and open interfaces for both Central Unit and Distributed Unit (CU/DU) architecture. Fronthaul is fully ORAN compliant which follows split option 7.2x. i2i RAN solutions can be deployed as containerized with cloud native NF virtualization and supports 2G, 4G and 5G. Hybrid cloud deployment architecture is supported and can be deployed on any cloud.

Network automation and maintenance is enhanced with full ORAN compatibility. Enhanced RIC support will empower the customization of i2i RAN and adds the intelligence.

i2i New Radio Solution: A New Approach to the New Radio



- 3GPP Release 16 is supported
- The i2i RAN network functions runs on COTS hardware which can be deployed on any cloud (public, private or hybrid)
- Multi DU per CU is supported
- Scale up and down of CU instances are supported
- For smaller networks, optimized deployments are supported (CU-DU on single server).
- For MEC solutions CU and UPF can be on same local server which is closed to the application location
- DU with Upper PHY is fully containerized and runs on COTS server
- 2G, 4G and 5G is available as a cloud ready vRAN solution.
- Fully ORAN Compatible fronthaul is supported.

i2i RAN solution is more powerful with its wide range of radio portfolio by its Open RAN Radio partners. Indoor and outdoor small cells, outdoor macrocells and small cells are available in radio portfolio:

- 64T64R and 32T32R mMIMO macro AAUs
- 8T8R macro AAU,
- 8T8R and 4T4R small cell RRUs are available.

5G Vision in Vertical Industries

Vertical sectors acknowledge the strong need for high performing and innovative communication networks and call for policies that would promote and reward such an investment. Mobile operators are aiming to expand the dimensions and scope of the offerings they provide to enterprises. i2i Systems is conscious of these technical needs and is researching and specializing in industrial IOT applications. We are extending our research in vertical industries and experiment on innovative ideas. In the next phases, we intend to ensure the use of 5G technology and radio at specific stage of production, specifically in the backbone of industrialized IOT.

i2i Systems is targeting digitization of factories with its 5G solutions. The efficiency of factory production lines will increase with collaborative functions of next generation robots that are directly connected to 5G network. Future communication network solutions are expected to ensure the connectivity between different globally distributed production sites and new actors in the value chain seamlessly, in real time and in a secure way. i2i Systems is aiming to provide a campus network with its 5G SA baseband solution for reliable, robust and real time communication network backbone for the factories of the future.

Empowering the 5G Era: i2i Systems Drives Innovation and Efficiency with Red Hat OpenShift AI

i2i Systems' 5G Core Network provides increased productivity and operational efficiency through Red Hat OpenShift AI, which enables intelligent automation, real-time analytics, and adaptive resource management. AI is poised to accelerate the delivery of innovative new experiences while significantly improving business processes and resource utilization, empowering i2i Systems to thrive in the 5G era.



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