


WIRELESS CONNECTIVITY WITH FIBER-CLASS PERFORMANCE

5G 
PRODUCTS

Fixed Wireless Access

5G FWA

info@i2i-systems.com
www.i2i-systems.com

 **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.

Our Customers – Telecom (CSP) & Industry



Partners



i2i 5G FIXED WIRELESS ACCESS (FWA)

Wireless Connectivity with Fiber-Class Performance

In today's digital economy, instant and reliable connectivity is the backbone of business continuity. Traditional wired infrastructure presents significant hurdles: high CAPEX, long rollout times, and limited flexibility.

The **i2i 5G FWA** solution changes the game. By delivering high-speed, carrier-grade broadband over a 5G core, we offer a powerful alternative to fiber for enterprises, campuses, residential users, and remote facilities. Whether used as primary connectivity or a secondary failover for branch offices, i2i ensures reliable network performance while minimizing downtime.

The Power of i2i 5G FWA

By eliminating the complexity of physical cabling, organizations achieve industrial-grade performance with unmatched agility:

- **Rapid Deployment:** Activate high-speed connectivity for new sites and temporary locations in days, not months.
- **Cost Efficiency:** It is plug and play and requires no cabling or installation. FWA per line cost is 20-60% that of fiber.
- **Business Continuity:** Built-in wireless backup ensures operations remain live during physical fiber outages.
- **Wide-Area Coverage:** Seamless connectivity for sprawling environments like hospitals and industrial parks.
- **Rural Connectivity:** Bringing gigabit-class broadband to geographically challenging areas.
- **Portability:** Your network follows you—simply move the 5G router to a new location for instant setup.

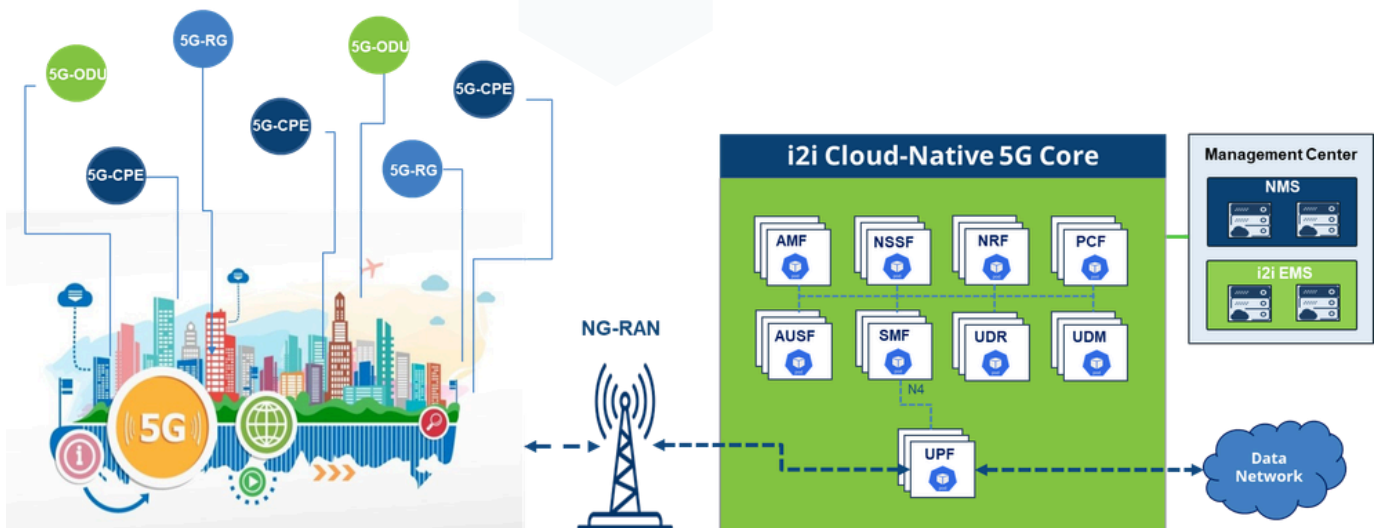
Flexible i2i FWA Deployment

The i2i FWA solution is anchored by a carrier-grade, **3GPP Release 18-compliant, Cloud-Native 5G Core (5GC)** Network Functions, managed via the intelligent **i2i Element Management System (EMS)**.

The solution leverages existing public infrastructure while maintaining service integrity. i2i provides a full or partial 5G Core stack (e.g., AMF, SMF, and UPF) to handle FWA-specific sessions. Traffic is anchored via:

- **Slice-Based Routing:** Utilizes Network Slicing to steer FWA traffic through the i2i Core, providing dedicated virtual networks with guaranteed SLA throughput.
- **DNN-Based Routing:** Utilizes unique Data Network Names (DNN) to route FWA traffic through the i2i Core, providing customized policy control and targeted QoS.

i2i 5G FWA Deployment Model



Hardware Ecosystem & Integration

i2i FWA infrastructure delivers fiber-equivalent KPIs without trenching. The solution seamlessly integrates with existing enterprise hardware through a flexible ecosystem:

- **5G Outdoor Units (ODUs):** High-gain antennas for industrial sites and challenging RF conditions.
- **5G Customer Premises Equipment (CPE):** High-performance indoor units for enterprise offices.
- **5G Residential Gateways (5G-RG):** User-friendly devices for fixed wireless subscribers.

Built on 3GPP Rel. 18 standards, the i2i 5G Core ensures seamless **interoperability** with any 3GPP-compliant **RAN** vendor, eliminating vendor lock-in.

The 5G Advantage: Wireless Without Compromise

The i2i FWA infrastructure delivers fiber-equivalent KPIs without trenching or cabling:

- **Ultra-High-Speed Broadband:** Supports bandwidth-intensive applications such as 4K video conferencing and large-scale data transfers.
- **Ultra-Low Latency:** Essential for gaming, video conferencing, and real-time cloud applications (sub-1ms latency on UPF and sub-10ms overall response time).
- **Industrial-Grade Resilience:** Advanced beamforming and 5G NR technologies ensure stable connectivity, even in high-interference environments.
- **Guaranteed Service Levels (SLA):** Network slicing enables dedicated resource allocation for mission-critical traffic, ensuring consistent performance regardless of public network congestion.

Why i2i?

i2i provides system integration and technical guidance throughout the deployment lifecycle, preserving the operator's ownership of radio and site assets while leveraging our proven 5G Core expertise to ensure a high-performance, streamlined rollout with clear accountability.

- **Proven 5G Core Expertise:** Market-tested, carrier-grade stability.
- **Cloud-Native & Scalable:** Grow your network on-demand.
- **RAN Vendor Neutrality:** Deploy with any 3GPP-compliant radio vendor.
- **SLA-Ready:** Guaranteed resource allocation for mission-critical traffic.

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.



○ Head Quarter Office

Yıldız Teknik Üniversitesi Davutpaşa
Kampüsü Teknoloji Geliştirme Bölgesi D-2
Blok K:1 No:Z-08 Esenler, İstanbul, Türkiye

☎ +90 212 285 48 44

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○ YTÜ Teknopark R&D Center

Yıldız Teknik Üniversitesi Davutpaşa Kampüsü
Teknoloji Geliştirme Bölgesi D-2 Blok K:1 No:Z-
08 Esenler, İstanbul, Türkiye

☎ +90 212 285 48 44

📍 [Get Directons](#)

○ Teknopark Istanbul R&D Center

Sanayi Mah. Teknopark Bulvarı, Teknopark
İstanbul C1 Blok 9. Kat No:1901-1902 Kurtköy,
Pendik, İstanbul, Türkiye

☎ +90 212 285 48 44

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