

Revolutionizing Connectivity on Ho Chi Minh City's Metro Line 1 with EPIC DAS Solutions



■ Background

The Urban Railway of the City of Ho Chi Minh, a visionary rapid transit network, is poised to transform transportation in Vietnam's bustling urban hub. Anchoring this ambitious endeavor is Metro Line 1, a groundbreaking project that embarked on its construction journey in 2012, with completion anticipated by the close of 2023. This vital artery of transportation, stretching 19.7 kilometers (comprising 2.6 kilometers underground and 17.1 kilometers elevated)*, seeks to knit together communities, catalyze economic growth, and foster a new era of connectivity.



■ Challenges

As the Urban Railway of Ho Chi Minh City materialized, a pressing challenge emerged – the dire need for enhanced network coverage to serve the sprawling metro line. The first metro line, Line 1, was at the forefront of this endeavor, but it encountered significant

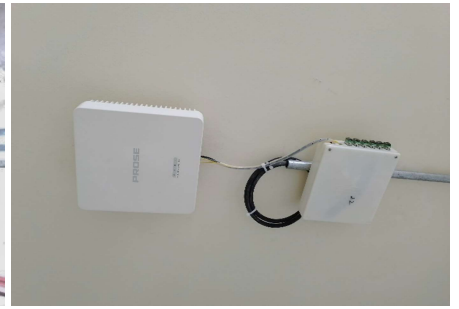
hurdles. While its construction symbolized progress and modernity, the ground network's existing infrastructure grappled with the lack of network coverage. This not only obstructed seamless communication and transactions within the metro but also threatened to foster a digital divide among its diverse travelers. Additionally, the endeavor aimed to not only

enhance connectivity but also to improve operational efficiency and deliver an outstanding passenger experience. This necessitated innovative solutions that could encompass these multifaceted objectives.

Solutions

In response to the connectivity challenge, the Enhanced PROSE Integrated Coverage Distributed Antenna System (EPIC DAS) proposed a transformative solution tailored to conquer the requirements of Metro Line 1. Using a comprehensive range of frequencies, including UMTS2100, LTE1800, and LTE2300, EPIC DAS stepped up to address the complexities of the urban landscape. In the initial phase of implementation, an intricately designed strategy came into play. This involved the strategic incorporation of MIMO for 1800MHz, 2100MHz, and 2300MHz bands, an ingenious solution that laid the foundation for tackling the impending capacity crunch.

With the involvement of three leading major local operators in the country, this collaboration transformed Metro Line 1 into a veritable hub of connectivity. Notably, the implementation encompassed 12pcs CU, 12pcs IM2U, 21 NEU, 132 IRU, and 14pcs HPRU, seamlessly integrating a trifecta of bands to usher in a new era of multi-operator harmony.

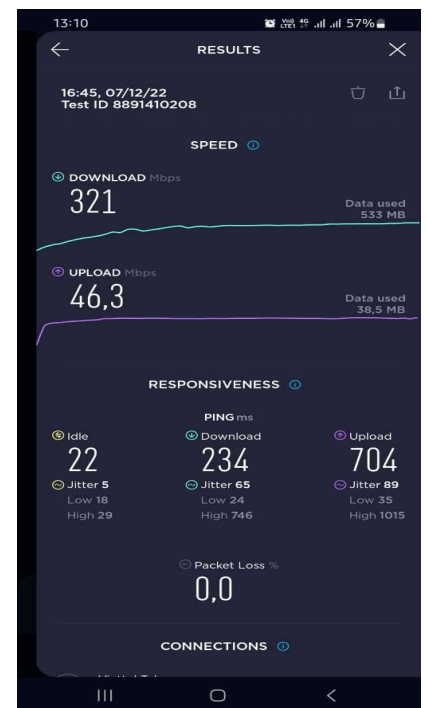


Benefits / Results

The results of EPIC DAS's strategic deployment unveiled a transformative landscape of Metro Line 1:

- **Exceeding Coverage Expectations:** EPIC DAS triumphantly transcended coverage Key Performance Indicators, rendering seamless network connectivity a reality.
- **Multi-Band Synchronization:** The synergy of 2G, 3G, and 4G bands not only bolstered coverage and capacity but also embodied a harmonious multi-operator ecosystem.
- **Efficiency Redefined:** Low latency and formidable output power redefined application reliability, fostering a superlative passenger experience.
- **Design Ingenuity:** EPIC DAS's compact, energy-efficient design with natural cooling mechanisms heralded a new era of sustainable power consumption.
- **Elevated Quality Unveiled:** Amplified uplink performance, expanded cell coverage, and heightened network quality underscored the essence of enhanced digital interactions.
- **Economical Brilliance:** The deployment showcased cost-effectiveness, accompanied by streamlined field-testing requisites and remote unit power autonomy.

EPIC DAS's triumphant integration into HCM Metro Line 1 encapsulated a journey from limited connectivity to an immersive digital landscape. In transcending the barriers of communication difficulties, this solution catalyzed an inclusive digital experience for residents and travelers alike, thus reshaping their quality of life and invigorating economic endeavors. Amid rapid urban metamorphosis, EPIC DAS emphasized that the future of connectivity is both seamless and sustainable, poised to shape a future where technology converges with urban living in perfect harmony.



Network Performance Test for Metro Line 1
After the Implementation of EPIC DAS Solutions

PROSE

