



Sojitz Tech-Innovation Co., Ltd.

Celona 5G LAN

Field Master Pro MS2090A

Anritsu Measurement Technology Ensures Wireless Quality of "Celona 5G LAN" Private 5G Platform, Accelerating the Deployment and Use of Reliable Private 5G

Introduction Purpose

Wireless quality evaluation of the "Celona" private 5G platform using Field Master Pro "MS2090A".



Name: Sojitz Tech-Innovation Co., Ltd.
Established: February 24, 1969
Number of associates: 908 (consolidated)
 763 (non-consolidated)
 (as of March 31, 2024)
Business: Provider of services such as network/IT infrastructure construction, system development, operation, maintenance, and digital transformation support with cutting-edge solutions both in Japan and around the world.
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Products Introduced

Handheld Spectrum Analyzer Field Master Pro "MS2090A"

- The highest continuous frequency coverage up to 54 GHz
- Real-time spectrum analysis bandwidth up to 110 MHz
- (as of March 2025, supports up to 150 MHz)

Background and Challenges

Sojitz Tech-Innovation has concluded a reseller agreement for the Celona 5G LAN, which solves the issues of high cost and operational difficulty associated with private 5G, to promote Digital Transformation in Japan.

Reasons for Selection

To ensure compliance with regulations, rigorous evaluation of the reliability, performance, and operability of the Anritsu MS2090A, which has been widely used in private 5G demonstration experiments by Japan's Ministry of Internal Affairs and Communications (MIC).

Introduction Results and Prospects

The MS2090A ensures strict wireless quality and has proven the effectiveness of Celona's private 5G deployment

Background and Challenges

Sojitz Tech-Innovation has concluded a reseller agreement for the Celona 5G LAN, which solves the issues of high cost and operational difficulty associated with private 5G, to promote Digital Transformation in Japan.

Since its establishment in 1969, Sojitz Tech-Innovation (STech I), a core ICT subsidiary of the Sojitz Group of general trading companies, has been a pioneer in customizing advanced overseas technologies according to Japanese specifications and then providing them to Japanese companies. STech I is a well-established integrator that has been supporting network integration and operation for major telecom and data center operators in Japan for many years, especially in networking.

STech I is focused on private 5G as a new business area. Mr. Hata, of the company's Network Integration Division, gave an overview of the background.

"Existing private 5G products are very expensive and require that companies have a high level of mobile network expertise. As a result, many companies faced significant challenges with

implementation, particularly regarding cost and operational complexity".

STech I has introduced the Celona 5G LAN as a means of solving these market challenges. Celona was founded in the US in 2019 and launched its 5G LAN portfolio in 2020. Since then, they have expanded their coverage to Europe, Latin America, and the Middle East. Celona expanded their offerings into Japan and Korea in 2024 and is planning deployment into the Asia-Pacific region soon. STech I, utilizing the Sojitz Group's information network and after comparing multiple emerging private 5G vendors, signed its first reseller agreement for Japan with Celona in June 2024. As a result of this agreement, STech I needed to quickly establish an organization to provide Celona with high quality control required in the Japanese market.



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Section 2,
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Mr. Takuji Kubo

Reasons for Selection High evaluation of the reliability, performance, and operability of Anritsu MS2090A, which has a proven track record in private 5G demonstration experiments by the MIC

Mr. Ooi, from STech I's Network Integration Business Division, explained the groundbreaking features of the Celona 5G LAN:

"We believe that the greatest advantage of the Celona 5G LAN is its simple architecture. The turn-key platform of Celona provides all the necessary Subscriber Identity Modules (SIMs), access points, 5G core, and management software needed for private 5G. This makes the operation and management as simple as that of a wireless LAN, even for IT administrators with no mobile network expertise. In addition, Celona integrates easily and seamlessly into existing network environments and security infrastructures, making it highly cost-

effective. Celona can also be used in communication environments where it is difficult to apply wireless LANs, such as those applications that require the simultaneous connection of many devices as well as high-speed handover. In particular, Celona's patented "MicroSlicing" technology prioritizes traffic and reserves bandwidth according to the application. This technology dynamically provides QoS (Quality of Service) to guarantee communication quality."

The primary challenge facing STech I and the development of the Celona 5G LAN for the Japanese market was ensuring compliance with all the laws and regulations pertaining to wireless

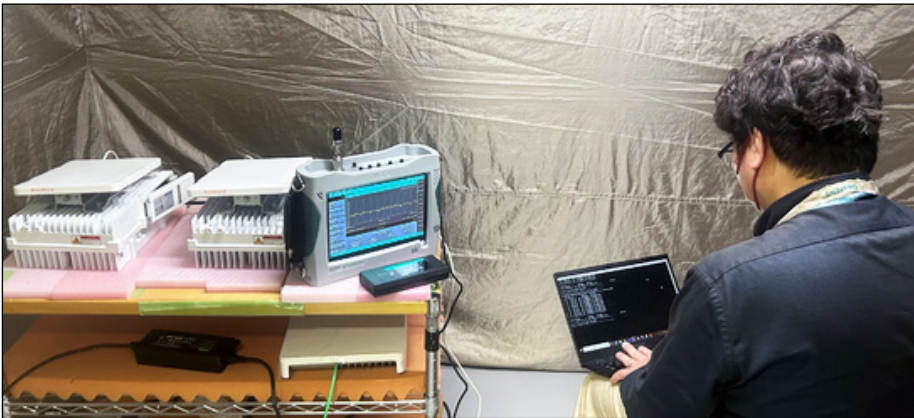
equipment in Japan. Mr. Kubo, from the same Business Division, reflects on how this challenge was addressed:

"When deploying private 5G in Japan, it is necessary to rigorously measure whether the system is operating correctly in the frequency band allocated according to the standard, and to confirm that no unwanted radio waves are being emitted.

Therefore, we focused on the reliability of Anritsu's measurement equipment, which has a proven track record in many private 5G verification experiments conducted by the Ministry of Internal Affairs and Communications. In addition, the engineers of the partners with whom we are collaborating on network integration also use Anritsu's measurement equipment, facilitating seamless information exchange and a mutual understanding of measurement data."

In addition to its reputation and proven reliability, STech I selected the Anritsu MS2090A because of its high measurement performance and functionality.

"We were impressed by the MS2090A's high receiving sensitivity, which allowed for accurate signal measurement, even at the low signal levels we had anticipated. Its lightweight and portable design made it very convenient to install and transport. Battery operation was also a necessary feature, as we need to take measurements throughout a wide area, both inside and outside the private 5G operation area," said Kubo.



Celona verification lab set up at the Quality Control Center in Koto Ward, Tokyo. Wireless quality evaluation with the MS2090A was conducted in a radio shield tent.

Results and Prospects of Introduction MS2090A ensures wireless quality, and has proved the effectiveness of Celona's private 5G deployment

In December 2024, STech I set up a Celona verification lab at its quality control center in Koto Ward, Tokyo, and began wireless quality evaluation using the MS2090A in a radio shield tent.

"My impression after using the MS2090A was that the touch panel was intuitive and easy to use, and it had a simple menu that let us quickly access the functions that we needed. In addition, the function for automatically determining the optimal measurement settings was extremely convenient. Anritsu's technical support was also prompt and courteous, which we highly appreciated," said Mr. Ooi.

"With private 5G, even the slightest time synchronization discrepancy can affect reliable connectivity. The MS2090A's GPS signal reception capability can be used to precisely measure any time synchronization differences. We make full use of this functionality when deploying Celona 5G LANs for our customers. In addition, we use the MS2090A as part of the Radio Law verification process. This allowed us to respond flexibly to our customers' needs and facilitate troubleshooting," said Mr. Kubo.

Based on these insights, STech I plans to introduce Celona's innovative platform to the Japanese market to accelerate the widespread adoption of private 5G and promote enterprise digital transformation.

"We predict that, after 2025, private 5G in Japan will enter a phase of full-fledged penetration. With its world-class manufacturing industry, Japan is home to numerous companies that stand to benefit from the advantages of private 5G. Celona's Private 5G LAN solution is highly competitive in terms of functionality, security, cost-efficiency, and deployment effectiveness, especially in emerging fields such as autonomous driving. STech I is

committed to delivering comprehensive support, including quality control for Celona products, as well as network design, installation, and ongoing maintenance.

We believe it is STech I's mission to support the spread of private 5G in Japan from the infrastructure side, and we will continue to actively utilize Anritsu's highly reliable measurement equipment," said Mr. Hata.

Anritsu measurement instruments are supporting Sojitz Tech-Innovation, which is creating the future through private 5G and Digital Transformation promotion.



Please click here for product information. → [Field Master Pro MS2090A](#)