

# For Early Deployment of High-Quality Onboard TCU and Automated Driving Systems

Signalling Tester MD8475B  
SmartStudio MX847570B

W-CDMA Simulation Software MX847510B  
GSM/GPRS Simulation Software MX847520B  
LTE Simulation Software MX847550B  
Multi-cell Software MX847502B



Signalling Tester MD8475B

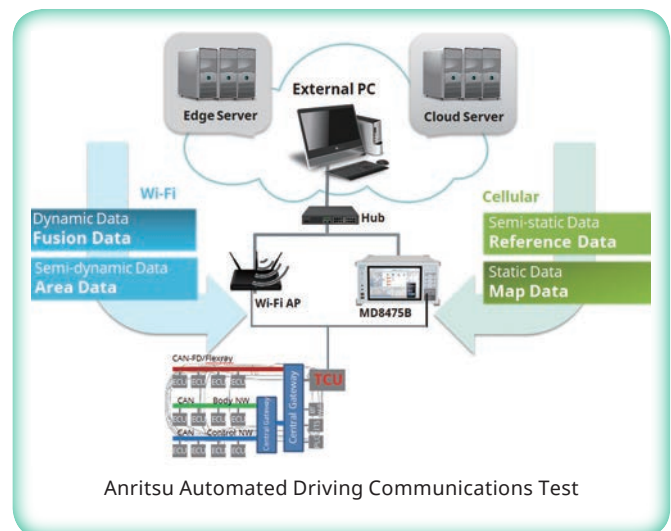
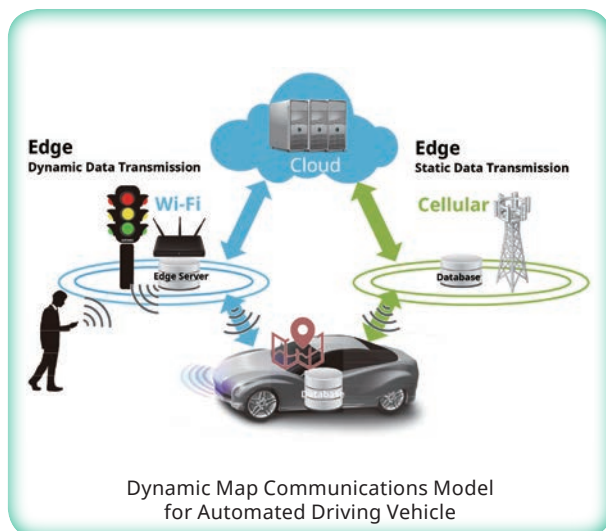
## Simulates Various Mobile and Wi-Fi Wireless Environments and Communications Conditions for Evaluating Automated Driving Systems including TCU, Navigation, Servers, etc.

- Supports Quasi-Normal and Abnormal Tests which are difficult to perform on Live Cellular Networks
- Easy-to-Configure Complex Test Environment Matching Radio Environment Power Variations while Driving
- Verification testing in Lab for Supporting Each World Cellular National Standard
- Intuitive GUI Operations Not Requiring Specialist Cellular Protocol Knowledge

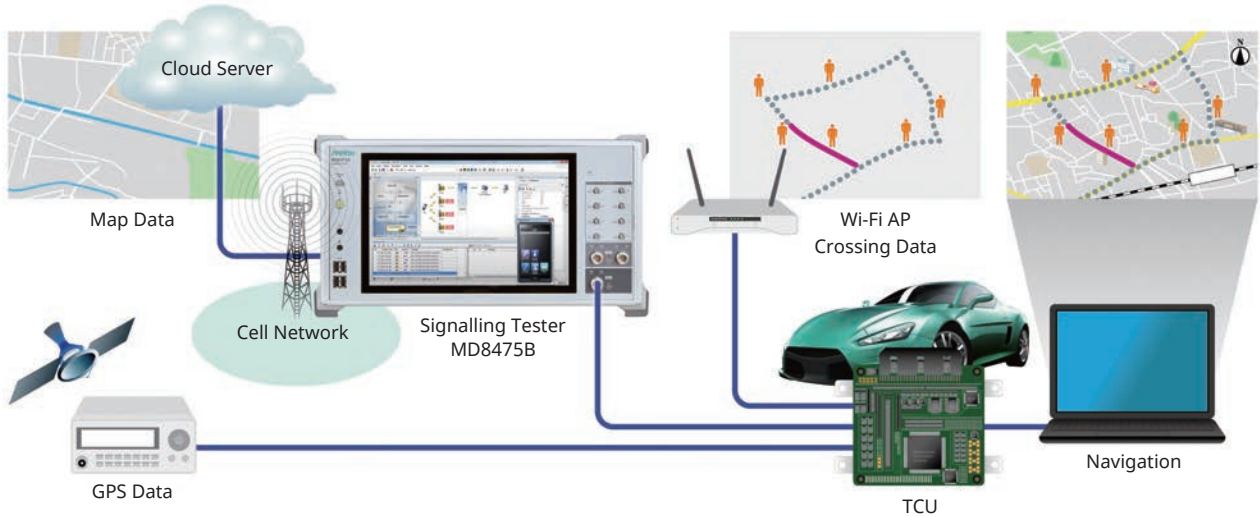
## High-Reliability Dynamic Maps Communications Evaluation Environment for Building Automated Driving Systems

Cellular and Wi-Fi networks are the typical communications methods for streaming dynamic maps. Since the MD8475B not only simulates a cellular network, it also can simulate various faults and changes in the communications conditions that may occur when updating dynamic maps by using with a Wi-Fi access point.

With an Internet connection port, the MD8475B can be connected to live cloud and application servers. Additionally, intuitive GUI operation makes the setting of TCU cellular network evaluations easy without requiring specialist knowledge of cellular communications protocols.



# Dynamic Map TCU Verification Tests for Implementing Automated Driving Systems



## Before

- Difficult configuration of cell edge connection environment due to handover between mobile cell base stations
- Cannot evaluate automated driving systems when message transmission to base stations stopped due to terminal transmission restrictions
- Cannot issue any rejection conditions for TCU communications request from mobile network
- Difficult to test automated driving system at dynamic switching between mobile cell and trusted Wi-Fi



**Anritsu enables!**

## After

- Reproduce weak electric-field tests when in-tunnel, etc., as well as 4G to 3G handover environment
- Generate Cell Barred at any timing and evaluate entire carrier network services
- Support overall automated driving system evaluations with configuration of various communications rejection environments at mobile network connection
- Configure optimized radio communications environment at vehicle-to-roadside communications using mobile and trusted/non-trusted Wi-Fi networks

This system simulates various mobile and Wi-Fi network communications; configuring a TCU verification test environment in laboratory helps cut development and testing costs for road driving tests while improving quality, using the MD8475B a world-leading tool for early deployment of Automated Driving systems.

## Ordering Information

Please specify the model/order number, name and quantity when ordering.  
The names listed in the chart below are Order Names. The actual name of the item may differ from the Order Name.

Model/Order	Name	Function Outline
MD8475B	Signalling Tester	Base Station Simulator
MX847510B	W-CDMA Simulation Software	Software for W-CDMA test
MX847520B	GSM/GPRS Simulation Software	Software for GSM/GPRS test
MX847550B	LTE Simulation Software	Software for LTE test
MX847502B	Multi-cell Software	Option for setting and testing multiple system cells with SmartStudio
MX847550B-02x*1	LTE MIMO Option	Options for adding LTE MIMO function
MX847550B-04x*2	LTE Carrier Aggregation Option	Options for adding LTE Carrier Aggregation function
MX847503A	SmartStudio Manager	Software for automatic control

\*1: MX847550B-020 supports 2x2 MIMO and MX847550B-021 supports 4x4 MIMO.

\*2: MX847550B-040 supports 2CC, MX847550B-041 supports 3CC and MX847550B-042 supports 4CC.

What Anritsu can offer in the automated driving system is MD8475B. GPS simulator, Wi-Fi access point, cloud server and navigation software must be prepared separately. Contact your sales representative for more details.