

# Receiving WLAN Signal Everywhere in Cabin?

Collecting data on wireless characteristics under actual operating conditions

Quantifying real cabin wireless characteristics helps prevent post-shipment problems and boosts product confidence.

Wireless Connectivity Test Set MT8862A

WLAN technology is of increasing future importance in supporting in-vehicle services provided by automobile infotainment systems. Providing high-quality, stable in-vehicle services requires both performance data for communications modules and quantitative data from the finished products under actual operating conditions.

The MT8862A has three advantages for capturing quantitative data on wireless characteristics:

## 1. Network Mode using standard WLAN connection for measurement environment

Finished products with embedded WLAN modules can be tested quantitatively under actual operating conditions, supporting both WLAN module evaluation as well as evaluation of products with embedded modules.

## 2. Enhanced connectivity supporting Network Mode measurement

The MT8862A can be connected to both Access Point and Station by IEEE802.11a/b/g/n/ac. It also supports product testing while WLAN security functions remain on.

## 3. Frame Capture function and IP data TRx port for resolving problems

The Frame Capture function with logging helps fast troubleshooting and problem isolation. In addition, the IP data TRx port supports confirming connections and Tx measurement by using user-defined data.

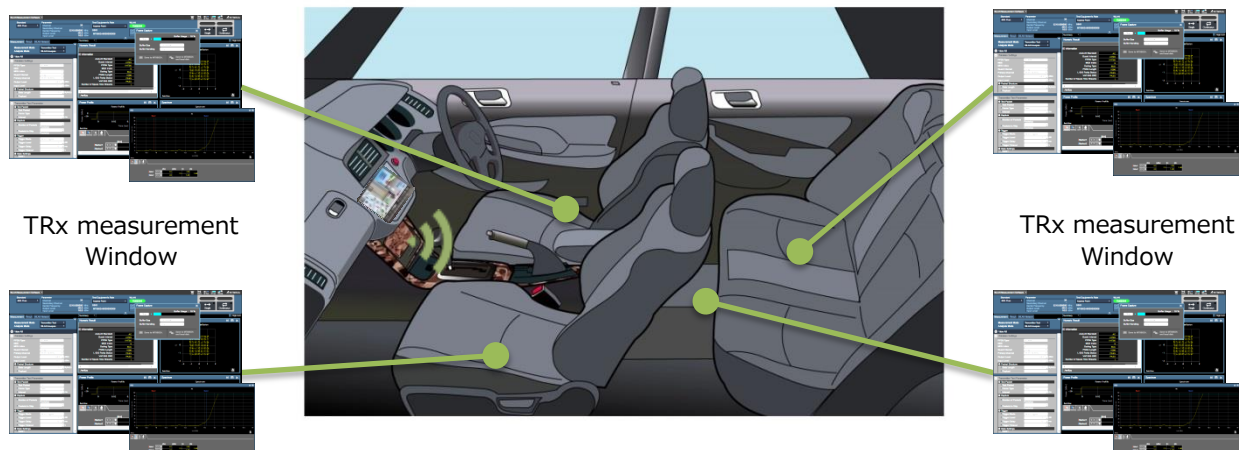
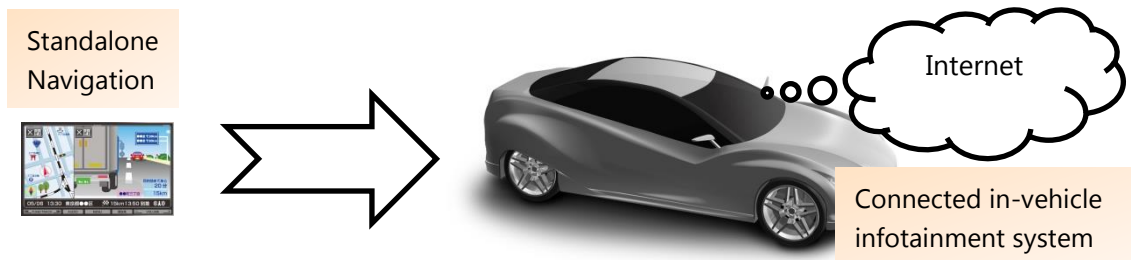


Image of Cabin Measurement Results

Expansion of the Infotainment System will increase future demand for high-quality WLAN. Submission of realistic quantitative and reliable data helps ensure product confidence.

Assuring in-cabin quality WLAN requires preparation of comprehensive product wireless performance data collected from a realistic environment.

Conventionally, WLAN has been an add-on function for standalone navigation systems, but it is becoming a key technology supporting cabin services in advanced in-vehicle infotainment systems. By widening automatic operation, it will support cabin services forming the basis of the infotainment System. Securing value-added cabin services requires validation by preparing general wireless performance data not only at the module level but also using finished products with embedded modules under actual operating conditions.



**Three reasons for using MT8862A**

**1. Instant setup**

By using MT8862A, since the measurement system uses a standard WLAN connection, it is unnecessary to install special Firmware for DUT evaluation on DUT, and cost can be reduced. It can also be controlled from a compatible OS and browser.

**2. Repeatable evaluation environment**

The MT8862A offers an optimized repeatable evaluation environment not offered by Access Points for measuring Rx sensitivity as indicated by the Packet Error Rate (PER).

**3. Easy analysis**

The Frame Capture function supports troubleshooting of connection and measurement issues using Wireshark to help cut problem resolution costs.

