Anritsu Product Lineup: Test Expertise for the Future of Transportation

Anritsu Advancing beyond

The complexities of the modern automobile continue to increase with more and more technology being added to support new communications applications and safety features. These technologies result in increased vehicle production costs for the manufacturer as well as increasing the cost of ownership. Anritsu breaks down the challenges and provides an approach to testing and production that provides efficiency and scalability.

Wireless Connectivity & Infotainment

Radio Communication Test Station MT8000A
5G RF/Protocol

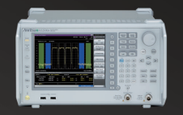
Signaling Tester MD8475B
e.g eCall/HO/Data Throughput

Radio Communication Analyzer MT8821C
RF/OTA/ w/ signaling

Universal Wireless Test Set MT8870A
RF w/o signaling

Bluetooth Test Set MT8852B
BT incl. audio

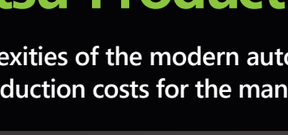
Wireless Connectivity Test Set MT8862A
WLAN w/ or w/o signaling



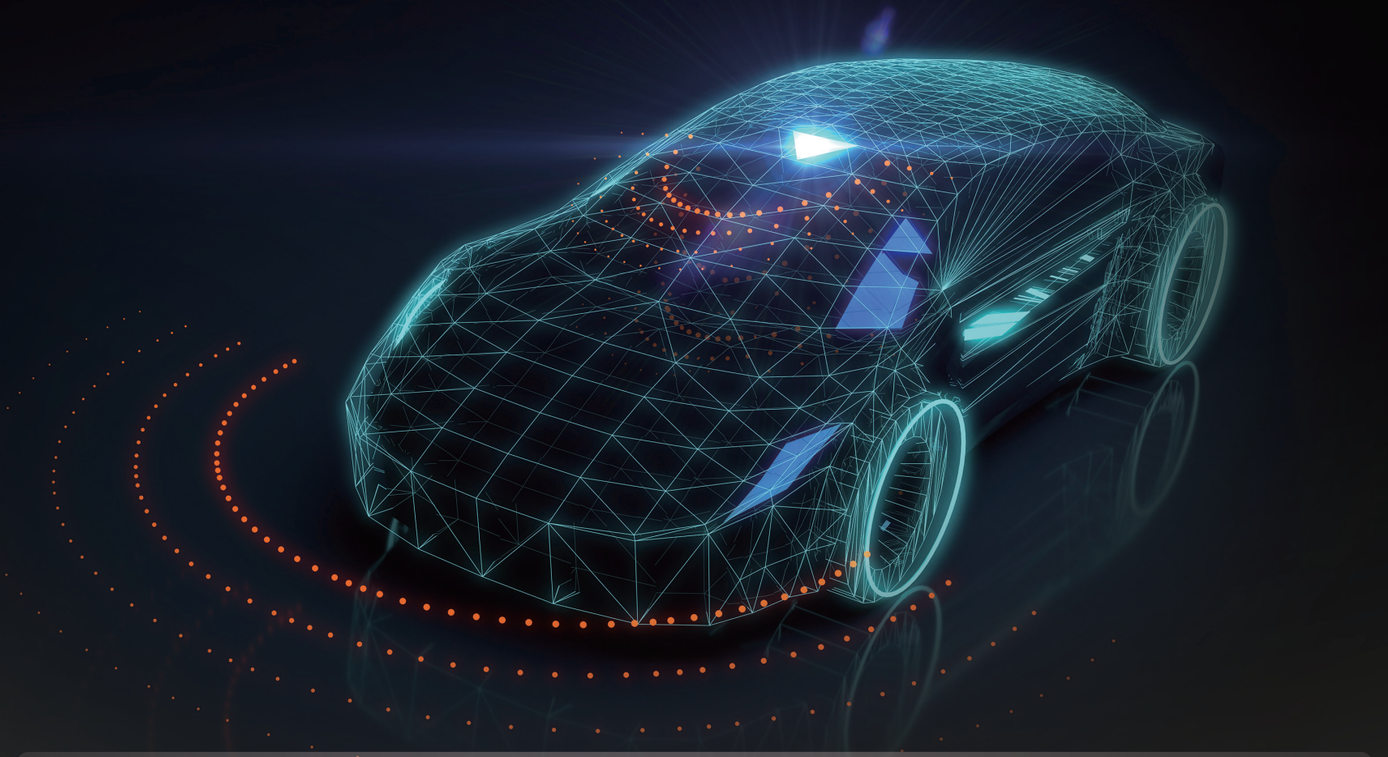
Signal Analyzer MS2690A/MS2830A
RF/HW w/o signaling

ADAS

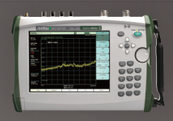
Signal Analyzer MS2690A/MS2830A
TPMS & RKE Test



Performance VNA MS46522B-082
Radar & Radome Test



EMC/EMI



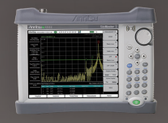
Spectrum Master MS2720T

Signal Analyzer MS2830A

In-Vehicle Networks

Optical Spectrum Analyzer MS9740B
Optical Module Test

Signal Quality Analyzer-R MP1900A
PCIe® & SerDes Test

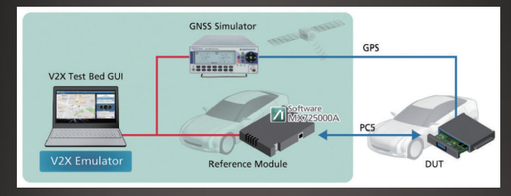


Site Master S331E
Cable & Antenna

2-Port ShockLine™ and 4-Port ShockLine MS46522B 43.5 GHz

C-V2X

Universal Wireless Test Set MT8870A
LTE-V2X RF Test



MX725000A C-V2X PC5 Communications
Functional Test

Datacom

Network Master Pro MT1000A
Latency Test

Anritsu Advancing beyond

Supported Wireless Communication in Automotive Systems

	5G NR sub-6 GHz	LTE/ LTE-Advanced FDD	LTE/ LTE-Advanced TDD	LTE-V2X	WCDMA/ HSUPA/ HSDPA	GSM/ GPRS/ RGPRS	TD-SCDMA	W-LAN (11a/b/g/n)	W-LAN (11ac)	W-LAN (11ax)	W-LAN (11j)	W-LAN (11p)	Bluetooth®	ISDB-T	DVB-T/H	GPS/Galileo/ GLONASS/ BeiDou/QZSS	R&D	Manufacture	Maintenance/ Service
Radio Communication Test Station MT8000A	●																●	●	
Signalling Tester MD8475B		●	●		●	●	●										●		
Radio Communication Analyzer MT8821C		●	●		●	●	●										●		
Universal Wireless Test Set MT8870A	●	●	●	●	●	●	●	●	●	●		●	●	●	●		●	●	
Bluetooth Test Set MT8852B													●				●	●	
Wireless Connectivity Test Set MT8862A								●	●	●							●	●	
Signal Analyzer MS2690A/MS2691A/MS2692A	●	●	●		●	●	●	●	●		●	●		●		●	●	●	
Signal Analyzer MS2830A		●	●		●	●	●	●	●		●	●	●	●			●	●	●

High Performance Testers for Automotive

Radio Communication Test Station MT8000A

The MT8000A is all-in-one support for RF measurements and protocol tests in Sub-6 GHz and Millimeter Wave Bands. It can also be used for testing existing LTE environments; a 5G-to-LTE NSA (Non-Standalone) test environment can be configured easily and supports a self-driving vehicle development environment.

Wireless Connectivity & Infotainment

Signalling Tester MD8475B

The MD8475B is the base station simulator supporting all cellular standard's test environments with easy-to-use SmartStudio GUI. And The eCall Tester MX703330E software runs with the MD8475B to simulate the eCall service PSAP. The software emulates eCall communications between the IVS and the PSAP at a traffic accident. Supports NG-eCall/eCall/ERA-GLOANSS.

Wireless Connectivity & Infotainment

Radio Communication Analyzer MT8821C

The MT8821C supports all cellular standards used at vehicle telematics systems. It is a high-end instrument for RF measurements, which makes it ideal for all stages of product development. While MT8821C has up to 8 TX RF, 4CA 2×2 MIMO/2CA 4×4 MIMO can be tested in a single box.

Wireless Connectivity & Infotainment

Universal Wireless Test Set MT8870A

The MT8870A is the best solution for testing at R&D and production stages of all wireless standards: cellular (2G, 3G, LTE/LTE-A, 5G NR sub-6 GHz and LTE-V2X), connectivity (802.11x, Bluetooth and ZigBee), navigation (GPS, GLONASS, BeiDou and Galileo), broadcast technologies (AM/FM radio, DVB and ISDB) and also M2M, V2X technologies with using internal GNSS generation feature.

Wireless Connectivity & Infotainment

Bluetooth Test Set MT8852B

The MT8852B is designed for performing RF tests on Bluetooth devices for R&D and manufacturing as defined in the Bluetooth RF Test Specification.

Wireless Connectivity & Infotainment

Wireless Connectivity Test Set MT8862A

The MT8862A has Network Mode for testing all WLAN devices integrated to a vehicle, and for evaluating the RF test items based on IEEE802.11 standard.

Wireless Connectivity & Infotainment

Signal Analyzer MS2690A Series / MS2830A

The MS2690A Series base units include swept spectrum analysis, FFT signal analysis, and a precision digitizer function. The MS2830A Spectrum Analyzer can be used for 2G, 3G, LTE, WLAN and V2X (IEEE802.11p) measurements transceiver measurements. The V2X 802.11p Message Evaluation Software MX727000A is designed to be used in conjunction with the Signal Analyzer MS2690A Series/MS2830A to demodulate, analyze, and display V2X messages.

Wireless Connectivity & Infotainment | ADAS | Intelligent Transport System | EMC/EMI

Network Master Pro MT1000A

MT1000A is portable, expandable tester supports 10/100G, OTDR, and CPRI tests.
It also supports network performance test such as latency, throughput, frame loss and BER.

Ethernet/CAN

Optical Spectrum Analyzer MS9740B

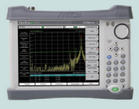
The MS9740B supports wavelength measurement shorter than 1000nm, which is key market for LiDER.

Ethernet/LiDER

Signal Quality Analyzer-R MP1900A

PCI bus interface speeds now exceed 10G. In addition, the equipment and chipsets using these interfaces support multi-channels and multi-protocols. The MP1900A is a high-performance BERT with excellent expandability for supporting Physical layer evaluations of these high-speed interfaces.

Ethernet/Infotainment



Site Master S331E

The S331E is the ideal product for cable and antenna installation and maintenance in the automotive industry. Insertion loss, 2-port measurements of amplifiers, duplexers, diplexers or filters, phase matching cables and antenna tuning are relevant applications fitting into the upcoming in-vehicle networks.

Ethernet/CAN

ShockLine™ MS46522B Option 82 (1 m), Option 83 (5 m) Performance VNA 55 to 92 GHz

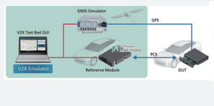
Options 82 and 83 are the E-band frequency option for the 2-port ShockLine MS46522B. They bring banded millimeter-wave (mmWave) measurement capabilities to an all-in-one package unique to the marketplace. For applications requiring only E-band frequency coverage, the MS46522B series 55 to 92 GHz mmWave option are uniquely suited for mass production of E-band components. The E-band VNA tethered module architecture also lends itself to applications testing radome material properties and radar components used in automotive ADAS systems.

Ethernet/CAN

ShockLine™ MS46522B and MS46524B 2-Port and 4-Port Performance VNA 50 kHz to 43.5 GHz

The ShockLine MS46522B (2-port) and MS46524B (4-port) are a series of 2-port and 4-port Performance ShockLine Vector Network Analyzers that deliver an unprecedented level of value and performance. The MS46522B series lowers cost-of-test and speeds time to market in numerous test applications up to 92 GHz. The ShockLine MS46524B series, configured with Options 10, 20, or 43, brings RF to microwave frequency capabilities to this family. These VNAs are excellent for characterizing and manufacturing mobile network equipment, mobile devices, automotive cables, high-speed data interconnects and system integration components.

ADAS



C-V2X PC5 Communications MX725000A

The LTE V2X PC5 Communications Software for Cellular V2X (C-V2X) tests V2V and V2I communications over the ITS band PC5 interface. It performs highly reproducible field driving tests by mapping multiple vehicles based on scenarios that simulate real road topologies. This can support cost effective performance evaluation.

EMC/EMI